



SEQUENCE LISTING

RECEIVED
AUG 06 2003
TECH CENTER 1600/2900

<110> Moyer, Richard W.

Li, Yi

Bawden, Alison Louise

<120> Materials and Methods for Delivery and Expression of Heterologous DNA in Vertebrate Cells

<130> UF-221C1XC1

<140> 09/662,254

<141> 2000-09-14

<150> 09/086,651

<151> 1998-05-29

<150> 60/224,479

<151> 2000-08-10

<160> 80

<170> PatentIn version 3.1

<210> 1

<211> 861

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 1
 atgacaatat ttgaaatatt aatatggata attgttttat tagcttttat gtttataata 60
 tttttatatg tggttttata tattaagaaga agaataatcg aaatattaaa tgaaaatatt 120
 cccattgaaa taaatataga taatgtaaat tatccaagtg aattatatac agataaattt 180
 aatcctaattg ttttaaaata tttaattaaa atattgttag attttaatac agaaattaca 240
 aataacatta ttatacattc aattgattat atgaaaatat attatataag ttataataaa 300
 aaaaaataa taaaattaat attagataga tataataatt tatggattgt tataagagga 360
 acattaacat ataatgaatt tgaacacgat cttagaattt cacaagttaa aatagataac 420
 tgtgatatga aatgtcataa aggattttgt gaaatatata gtaaaataca aaagccatta 480
 ctaaatttat taatgacttt atcaccaaat aaaatatgtg cattaggtca tagtttagga 540
 ggcggaatat tatcaatagc agcttatgat atttttaata ttttaaataa aaaagaaatt 600
 atattatata caacgggaac acctcgtgta tgtaataaag atttttataa taattgcaat 660
 aaatataata tacataaagt agaaaattta agtgatgtat atataaatgc aataccttct 720
 gttttaccat tttatgataa tacagtatat tataaaatag gaaaaatatg gtattttgat 780
 gttaattacg gaaatataat attaaatcat aaactagaaa tttattttta caatattgat 840
 aatctaaaat atttagaaat t 861

<210> 2

<211> 456

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 2
 atgaaagcta tatgtgttat gaccggaaaa gttaatggaa taatatattt tatacaaaat 60
 attaaaggag gatctgtaca cgtaaaagga aaaatagttg gattatctaa aggattacac 120
 ggatttcatg ttcataaata tggatgatgt agtaatgggt gtacatcagc aggagaacat 180
 tttaatccat ataatagaca acatggagat attagtataa aaatacatcg tcatgttggt 240
 gattttggta atgtgtatgc agacgaaaat ggcgttgcta atattgattt tcacgatgat 300
 attatatcat tgtgtggaac aaataatata ataggaagaa cattagtagt tcatgattcg 360
 cctgatgatt taggaaaaac tgatcaccct ttgagtaaaa caagtggtaa ttctggcgga 420

agattaggtt gtggtattat tggattgca aaagat

456

<210> 3

<211> 1359

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 3

atgtataata atgaatattt tactaatcgt gttaaaattc ataaaaaat agatacaatt	60
aataaaaatg ttttatattt agcatataga gatctcagag tttatgataa ttgggtcattt	120
ttatatcttc aaaatatagc atattttaat aattcttcta tgtatgtatt atatttaata	180
aataaaaata ataatatataa tataagacaa tataaatttt tatatgaagg attgccagaa	240
ttcgaatcac aatgcaaaaa atgtaatgtt tcttttcatt tattatctta taataataac	300
ataatatcaa attttataaa taaatataaa ataggacatg ttataataga acaaagccg	360
cttttattcc acaaaaaata ttatttagat ccattaaaaa aattaaatgt caatgtatat	420
attgtagatt ctcataatat tataaccagta tgggtaactt cagataaaca ggaatataac	480
gcaagaacaa taaggattaa aataaataaa ttaaaagatc aatatttaac cgaatttcct	540
aaagttaaaa ttagtaatat acaacctatt tttgtagaaa ataattttga tataattccc	600
aattatgata aaaaattaat aaatatattt gaaatagtgg gagggtatatc taatggaatt	660
aatagaatga ataatttttt taaaaataaa ataaacacat acaaagataa aaaaaataat	720
ccaaattatg aaaataccag tattttatca ccatggctac attgtggtat gatttcagct	780
caaagatgtg ttttgaagc aaataaactt aaaaaatta aagattataa tatagaatca	840
atagattcgt ttatagagga aatttttata agaaaagaat tatctgataa tttttgttat	900
tataataata attataaatc ttttgcattc tgtccaaatt gggcaatatt aactttagaa	960
atacataaaa ctgataaaaag aaataaaaata tttagtttac gagaattaga gtatggcaaa	1020
acagataata aactttggaa ttattgtcaa tattatttat taaaatttgg ttatcttaat	1080
ggatatatga gaatgttttg ggcaaaaaaa ttaattgaat ggactaattc tcctcaagat	1140
gccatcgata aaacaattta tcttaatgat aaatatattt tcgatggata tgatcctatg	1200
ggatatgtta atatattatg gtcaatagga ggattgcatg acagagcatt caaagaaaga	1260
gaaatgtatg gaaaaataag atttatgtcc caaccattaa tgtataaaaa attaaatgta	1320

aatgattttt ataataattt cgataatgta attaagtct

1359

<210> 4

<211> 794

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 4

atgatggatg acattaactt gtataatgaa tctgaaagat taaaaacatt tgaaaattgc	60
ccataaattt tataactcct gaatcatttg ctagtaatgg attttattat ataggtgaga	120
atgatacagt taaatgtgtg tattgtggag taaaaataaa taaatgggtt gaaggcgata	180
aaccagaaat tgatcataaa aaattttctc caaattgtag ttttttaaaa tctaatagat	240
gaatagatga gtgtggcaat aataaaaaata tatctaacaat tacacaaaaa ggagcagttc	300
atcctaattct atcaaatatt gttgaaagac ttaaaacata taaagagtgg cctatttcaa	360
tgcctatttc tacagaaaaa ctagcagaag ctggattctt ttatactgga aaaagtgata	420
aagttaaagt cttttattgt gatggtggtt taaataaatg ggaaacagac gatgatcctt	480
ggatacaaca cgcaagatgg ttgataaat gtgattatgt taaacttgta aaaggcaaag	540
attttattca aaaagtaatg acacaatcca cgtttatcaa atcgtcgaaa aaagaaaata	600
tacctgaaat aaatatatca aacgatgaaa aaaatgatat aaaattatgt aaaatttggt	660
atatcgaaga acgagttatt tgttttgtgc cttgtggtca tatattttgt tgtggaaaat	720
gtgctatata gatggataaa tgtccggtat gtcgaaataa aataaaaaaac ttaactcgcg	780
tgtattatcc ttaa	794

<210> 5

<211> 885

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 5

atgaatttta tgccacaata ttactatata agtgatatta ataataaat tgaatatgac	60
--	----

gaaaatttta atcctggtaa aaaatttgat tttaaaagac aaggtcaa at taaattatta 120
 atgaatgaaa taagattttt aacagaagat gtagaattac ataaaaatta caaaaatgaa 180
 aatattaata ttttatatat tggttctggt aaaggatata atataccttt attaatat 240
 atgtattctg attataaaat acaatgggat ctatacgatc catgtggtca ttgtgaaaaa 300
 ttatataata tccaaaaaaa taataataat ataaaaattt atgatacata ttttaataaa 360
 tcggatgtag aaaaatatga aaatatcgat aatttactat ttataactga cataaggact 420
 gtagataacc ccgacgacga accaaatact aaaaatttaa taaatgatta tgaattacaa 480
 aattatatat taaaagaatt aaaacctata tcattagtaa aacaacgcga tccttttcct 540
 aatgattggg atgattctta taaattatca atacctgatg gtaaggaata tatacaatgt 600
 tttcaaaaat ataattcagc agaatataga atatttatat ctggaattac aacttttgta 660
 gatatacaatt ctgttatatt aaataaaaaga ggaattgata gaaaattagc ttggtataat 720
 atgaaatata gatttcaaaa tgataatgat tataaaaattg catatagaat attaaataaa 780
 tatataaaat cagaaaacaa accaatatta aaaaaatata ataataattaa taaaaataat 840
 ataaaaaatg tcattagatc attatctaaa gaaatgggtt attat 885

<210> 6

<211> 879

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 6

atggatgtta ataaatatat atatgaatat aataaaccac tatattatac ttattatgat 60
 ttatgtagaa atatgaatga tgttatttat gattataata ataatactat taaaaatat 120
 atggatatat tattatcaca aatacaattt ttatccaaca taaatattaa aaaaatatgc 180
 aataatacta atggtatagt taacatatta tatattggat cttcaaaagc atatcatttt 240
 aatatattaa atgaattata taaaaattta actaatattc agtgggtattt ttatgatatt 300
 atagatccgt gtattagcgt agagagattg tcttataata ttatttttaa taggaaactt 360
 tttaccgaag atgatattat agatttttaa gataaatatc cactaatatt aatatatgat 420
 tatgatgata aatctaactg tagagattta ttatatcatt ataatatgca aaataatata 480
 ataatatatt taaatccgac atattcgttg ttaaaattta aatatatgcc tataaataaa 540

tggaataatt cttttaatga ttatgaatat atttcaactg gtataaaata tttaccaaca 600
 ataaaatcat tacatactag aaatattata gataataaaa atataatgac attaacatTT 660
 gatgagatag aatctgaaaa ttattacgaa aaaatgaatt actataataa ttgttctgga 720
 tataacgata tatataataa tatttcaggt tatatattaa ataaatcaaa tttatatgac 780
 aataataatt cagcttataa tatattaaaa atatatgaaa aaaatataat aaatacaata 840
 aacgaagata aaatatttag atcaaaagaa aaatatatt 879

<210> 7

<211> 3318

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 7

atgccttttt taggaactgg tatattaaaa tttgatataa cacagttaca aaataaagaa 60
 aaaggaagtg attataatgc tattagatat ctaaaaagaa tattaaataa accatgtgat 120
 aatgatgata tattaatacc gtatgataaa ctagaaagta aagaaataaa tattaataatt 180
 tataattggg atataataaa accatcatcg ttagaacaat ttatagtatg taaatgcaaa 240
 gattatgata ccgaagaaat aatatatata ttatttgata tatatgaata ttttctttgt 300
 gattacgaat tatcagaatc aaatacaaaa ttaaaaaata taaaaataa catagataaa 360
 tataaaaaatt cattcaatag ttcttattta gttcttgaag attataaaaat aataacaaat 420
 gaagttaata tacaatatta ttataattat actgaagata gtaaaataac attaaataat 480
 aatgatttag ttttatttat gactccttat aaaatagaga aaatatatag caaatataat 540
 atattcatta atcaatatag gtgggttttat gtattaaata atatagaacc atctggatca 600
 tatagaataa atatggataa tatgcaaaaa attaaaacat ataataaaaa taaaacatca 660
 tattattgca aaaatcctaa attggttattt tctaattatg ttaaaataga taaacatatt 720
 cctgcaagtc gcgtttctat tgatatagaa tgccaacatt ttggtgaatt tccaacagct 780
 aataaatttc ctatttctca catttgata gattggata tggataagaa tacaatccg 840
 ataaagaaaa taataacatt aataaactat gaaataataa aaaattatgt gggagaaaag 900
 aaagataaat ttatatatac cgaagttaat aagttattaa atacaaataa agtatatatt 960

acaatatatt gtacagaaaa atatatgcta catttttgat tgtatactct taggcaggat 1020
 ttcgattatg ttttgacata caacggacat aatttttgatt ttacatatat tcaagatagg 1080
 aggaaaaataa ataagttaaa aggtttatgt ttagataatg tatattctac aaatgagata 1140
 aaaatatcaa aattttctta taatcaagat actacatatg aaattgacag cactaacgga 1200
 attatatatt tagatttata taattatatt aaaaaaacat atccttcgtc aaatagttat 1260
 aagttatcag aaataactaa agaaagattt aatatatttt gtaagatatc atataataat 1320
 aatgaatata ttatcgaacc attgaatata aaagctaata aaaacaaaat atctatatatt 1380
 tatgatgtta taagaactgc taattattgt tttattaata ataatccata taaaataaaa 1440
 aataagacag aaattattga tgatatagaa aaattatatg atttaacatc gataaaaaat 1500
 tcgcataata aaaaatttac catatatgaa aatgatattc ctattaatga taattatgca 1560
 acagttatgt tatctaaaga tgatgttgat attggagata aaaatgcata tgtaattttt 1620
 actaaagaaa aatcagataa tatagcctat tattgtactc acgatactgt attatgtaat 1680
 tgtattttta aatacgatat gatacatgat aaaataatag catttagcaa tgaatattta 1740
 ttaccacagt gtatggcatt taaatacaaa agttccaata atatatcagg tttattatta 1800
 aaaacattat attcaaataa aacaatgata tatccaggta atgtagaatt tgaaaaattc 1860
 gaagggtggt atgttattga accaaaacaa aaatatattg atagtttaac agcagtggtt 1920
 gatttttaatt ccgaatatcc atcaataatc atagaagcaa atttaagtcc agaaaaagta 1980
 gtaaaagtaa taaagttatt tgatgacgaa gaagcggcaa ataaagtaga aaaatatcta 2040
 aaagataatt ataaatatcc tgattattgt tatattaaaa ttattaaaga taaaatgtat 2100
 aaattttatc taatggatag aagagaattg ggcgttacta ctcaaattgg aaaagatggc 2160
 agagaaatga aaaacatgta taaagatctt aaaaaataaaa ataaagataa tgtagattta 2220
 cataacttct attcttcagc tttgtatagt aaaaaataaa cgattaatag tatgtacggt 2280
 ttatctgggt cagaaagatt tatatttaat tcgccatatt gcgcagaata ttgtacagta 2340
 caaggacaaa attgtattaa atatattcaa acattagtaa ataattcaaa atatatagat 2400
 aatgttttta tacttaataa atgcaataat ctttttacaa atgagcccat aaaaactaat 2460
 tatcccggtta atttaaatgt taatttcaca tttaatgtaa aatatggaga cacagattct 2520
 ttattttata ctgttaattt tgaaagtaaa tttaatagta aagaagaaaa agttaagta 2580
 ggtcataaat gttttacatt tttaggtaat gttataaatg ataagaaaaa taaaatatta 2640
 acagataatt ttgaatttga atatgagaag atgtattatt ggatgatatt attagcaaaa 2700

```

aaaaaatata ttggagaagt tgtaattaac atggatcctt tgcaattaat ggatgatact 2760
aaaggtagtg cgttaatacg tagagattgt actgtaatac ataaaaactat tttaaaaaat 2820
actataaata tattaanaaga tttttaaca aatgataata ccggtataaa tattaatggt 2880
aaaataaatg attatttatc atctgcattt aaaaatatca tagagaatat acaaaattta 2940
gatattaatg attttaaaaa atctgtaaaa tatagtgggtg tttataaaga tcctaattat 3000
ccaatagaat tatgtgttaa agaataaat ttaaaaaatc ctaatgataa aataacaaaa 3060
gggtcaaagat ttgattttat atatgctcat aaaataaatg aatgggtcaa agatataaaa 3120
aagtggaata taaaatatac tatagatatt tctaaacatg ttataatatt agaagactat 3180
ctaaaaaata aaaataatta tagaatatgt gttgaaaaat atataaaaaga tatattatca 3240
aatttagatc aaattattaa tgataaaaaat ataataaaaa atatagatat tatgtttaat 3300
agttatgaac cacaatga 3318

```

<210> 8

<211> 1836

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 8

```

atgaatgata tcgataaaaa taatatatta aacaataaat atatcggttt tcatacaatt 60
aaagaatatt tagataaata taaatgtcct ttacaatttt ttgtcggtgc accacatagt 120
tatcaatcaa cagaatattt aaataaatct tatacaggta gaacaatatt tgttcattct 180
aaatatgttg gtaatatagc taaagataaa aatagtgttg ctttaagaaa tataaaaaaa 240
gaattattat atttacaaaa tatggaaata aataattctg gaactgttgt acatttgtca 300
ttatattata ataaaaatca agaagaatca ttaaaatatg tcgcaaatga attaaataaa 360
ttttgtaaag ttttgataa tatattagat aataactact ttaatcatat aatatttgaa 420
actacaaatg atataagaca tttgggtgct aaaacagaag attttaaaat attatatgat 480
aatttagatt ctaatgctaa aaaaagaata aaattttgta tagacacttc acacatattt 540
gttacatttt acaatattaa tacagttaaa ggtatgataa attatcttgc aaaatttgat 600
ttgttaatag gattagataa aattatatta attcatctta atgattcgtg tggtttgcca 660

```

```

ttatcttcgt ataaaccaca cgaagctatt ggaaaaggaa acatttttaa aaattataaa 720
gacgatctta gctcattaca tatttttaaaa acatatgcaa cgttgtataa tattccatgt 780
atattagaaa gaagaaatga agttcctgat caatctataa tggatgaaat gaaaatatat 840
ttagatatta aacaaaatat gaatattgat aattttatgt cgatgattaa taagcataaa 900
atattactag tattaaataa atttgcagat atatataata tacttaatga aataaaatat 960
aaagcatttt taaatgccgc ctatgttata caaaaatactc ctgtgataat ttttaaatat 1020
aaaaatgtaa ataataaatt tatattaaac gaatctaaag aaaatataat tcaaaaatat 1080
aaaaatttaa aatcaatagg aacatcaatt tcagatataa tatatgaatt attaagtact 1140
aataagggttg aaaaactcat taatttagaa aataattcctt cgtataaata tattaaaatt 1200
ttaacttcaa tattatttat aggtcctaaa aaagcacaaa gtttattaaa attaaatata 1260
aaaaatataa atgatttaat agaaaaaaaa gataatatta tcaatatggg aatattaaca 1320
attcacgaaa ttaaaataat cgaatatatc aaagatatgg aaccagttag tagaaatfff 1380
ataaatgatt tgaacaaaaa tataaattta agtagtgaat gtgaatggta tatattagga 1440
tcatatgcta gaggtttaga ttattctaaa gatattgata tattaattat agattttact 1500
atagataaat ttttagaaga attaaaaaaaa atagcaaaat taatgtatat aattagaaaa 1560
ggtaataata tatttttctgg cgtattttta tggcaaggta aaaaatttat tcttgaaata 1620
aataaagtta ataacaaaga aaaatatact gctattatgc attttacagg ttctaaaaaa 1680
tttaatatff ttatgcgtaa tatagctaaa tctgaaaata tgatattaaa tcaatattca 1740
ttaaaaaaag ataatgtaga attacctata actaaagaag aagatatatt tgattattta 1800
aagataaaat acataccaaa taataaaagg aatatt 1836

```

<210> 9

<211> 4152

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 9

```

atgtattttta atatttttaa tggattatta tggaaatatt atattataaa aagaaaaaaa 60
tatatttatg atatgttaga atatttatta ttaattttgt tttttacatt actatatagt 120
tttaaaaaaa atataaaata ttatgataat gatttgaata atataaataa aattaataat 180

```

aatacaaaata ttatatatta tccaaaaagt aatatatcta taaaaattat agaaaaatgta	240
gccaaagaat taaaaataaa taaatattat ggttcaagca acgaaaaatga aataattaat	300
tttattgata ctaatgaaac aatattttatt ttattttaata atacatgtga aaacttatta	360
tatactataa gatttaataa taatgaaaat aacgatagat tattaattaa tatacaatgg	420
ttaattaata tgaattattht aagattgtta tcaaataaaa atataaacat tgatatagat	480
ataaatgaat acatatataa aaatttttaac acaaatatat tatttttatac atattattcg	540
atattaatta ttgcatttat atcattttata ttaaaaaata acaacgacaa taatgatcct	600
atgttcaaaa taataaaagt gccaaaaata ttaatatata tatccaattt tatatgttca	660
ataccatttg gaattattta ttcagtattht ggtacaataa tattaacaat atcagaagat	720
ccgttaataa ataataataa taatattata atgttttctaa tattattaat atattttatt	780
tccgtaattt ctatggctta tttgtgtaat tttttcatat tattaatata caaatataaa	840
atatttgtha ttatgtgtgt gtatgtatta actattattc ctattacatt atataataat	900
ttaaattcag atataaatat atttataggt ttaattccac acatttccttt atattggatt	960
tttgaccaat taaattatgt agaaaaacaa aataaaagt ttacatttta taatattaat	1020
atatcttata gtatatatag taaatctatc ttgatatcta ttatatattt aattttgcaa	1080
tcattttatat atatatctat aatacatata attaaattaa tatataaaat atgtaaaaaa	1140
tatatgaaaa tgaaatatat atatattata aatgaaaata ataattatat gttagaaaca	1200
gaaaataatg attattatgt taaaatacaa aacatatata aatattatga taataatttt	1260
atthttgaata atatatgttt ggatataatt aaaaataata caacagtatt gttaggaaac	1320
aatagtgtctg gaaaaagtac tttattatct atttatattcg gattaataaa acctaataag	1380
ggtaaaatat taactaataa tatcaaaaata ggttattgtc cacaaaaataa tataaatttt	1440
acagattthta ctgtaaaaga aaatatatat ttattttaata tattgagagg attaagttcg	1500
ttacaatcaa aaataaaaaac aaatgaaata attattttatc taaaattaca tgatatagaa	1560
aattgtataa taacagaatt atctgaatgt tcaaaacgta aattacaatt agctthtttcg	1620
ttaatagatg attctgattt tatattaatc gatgaaccca cacataatat agattthaaaa	1680
agtaaaacaag aaatatggga tttaatatca ttattaaaaa gaaataaaaac tatattaatt	1740
actacacatt gtatagatga agttgaatta ttagctgata acttaattat attaaacaac	1800
ggaaatgtta aatataattc gacattattt aatattaaaa aagatgcaaa tgtaacttat	1860

aaattatcaa	tacataataa	ttctaccgac	gataaaaataa	aaaatataat	tattaatagt	1920
ggattttataa	tattaaatat	taataaaaata	gatgaaaata	attcaatata	taatattttat	1980
aaaacagaaa	attctaattt	tttaaaattg	tttgaattat	tagaaaatgt	taattgcgat	2040
ataatatatt	ttaaatcgaa	tactttaaat	gatattttat	ataaattatg	ttctgaagat	2100
attataattc	ccgatgatag	ttatataaat	aattttaaatt	ataatgatat	gtttatatct	2160
gaaataatgg	gatttaataa	aattatgaga	caatttatag	aattatttaa	aagaaatatt	2220
tattatataa	gaaagaatat	attattattt	gttattataa	attttatttt	atctatatta	2280
attgtttatg	tgggtattgt	atatattaaa	aagtatgaaa	atttatattt	atataatttt	2340
gtaatcataa	atcacaacat	agataatttt	attaataata	gtaattattt	attagatata	2400
aaacataata	gtacatataa	taaaataact	tatatacctt	tattttaaata	ttctggatca	2460
atagccatta	acattatttc	aaacataata	gcaaaaaataa	atataccaaa	tatagaaaaa	2520
gacataataa	caactatatt	ttatccaatg	tatcaaaaata	aaactagtat	tttaactaat	2580
ttattttatt	caattatatt	acaattatat	tgtattaatt	ataataaatt	aattaaaaaa	2640
gataatataa	acaaaacaag	aaaacaacac	attataaatg	gatgtaatcc	tgaattacat	2700
tggataacaa	cattattatt	taatatgata	ttattttcta	tatcagtaat	accaataata	2760
ttatatatgt	taaatattaa	atcatttttt	gatttaatta	tatttatatt	tatattgata	2820
attaatgcat	tatcatttat	gcttttttcg	attataatat	taatgtttga	taatcaatcc	2880
gataaaataa	tattaatttt	agtatttata	ttaggcatac	tattacctat	atataaaatt	2940
aaatataaaa	atattatttt	agatatatta	tcatatatat	ttatacctag	ttgtatatca	3000
atgtctataa	ttgaatattt	aaatacacac	aaactaaatt	atataatttc	gattataata	3060
caaattttat	tatatttaat	tttaattata	ttaatagaaa	gaggtttaat	tgatataata	3120
tataataaga	taattaattt	aaaatataat	agaaaaaata	ataattattt	tgaattacaa	3180
aatataaaca	aatatactga	ctataattca	tcattaatta	tgtcaaattg	ttataaaaata	3240
tataataata	aattggcatt	aaataatata	aattttaaaa	tatcagaagg	aaaatgtttt	3300
ggaattattg	gtggtaacgg	atgtggaaaa	agtactattt	ttaaaatatt	atctggcgaa	3360
gaatgtgtta	caaaaggaaa	tatttatata	ggatgttcta	acagatcatg	gatattaaaa	3420
tcaaattatt	ttaaaaaaat	atcttattgt	tctcaatttt	ttggcataga	tacattttta	3480
acaggaagac	aaaattttaa	attaattatg	atattaaatg	gttttagtga	taaacatata	3540
caatattata	ttaatatttg	gttaaaaatta	ttaaatatag	aaaaatatgc	agataaagca	3600

gtttatacat acagtactgg tattataaaa cgtttaaaaa tagcaatgtc attagcacct 3660
 agatcaattt taactttaat ggatgaacca acgtcaggaa tagatattgt atccaaacaa 3720
 attatatgga aaactataaa atatattatt aattataatt attataatta ttacaaacat 3780
 tccattttta tttcatcaaa taatatagaa gaaatagaat atttgtgctc taatgtgatt 3840
 atcctagatt ctggaaatat aatgtataac gatacttttg aaaatattaa aaatatacat 3900
 agtactaaaa taattaatat taaattatta cattatgata ataacaaaat ttgtaaaata 3960
 aaaaataaat taaaaaataa aggttttatg ttaaaatcag ataataaatt taaattaaca 4020
 ttttgtgtat ctaaaaatat taatttgaaa tatagtgaat tatttaaaat attatatata 4080
 ttaaagaata attattcaga tataattgat caatatgata taagtgatac aaatatagaa 4140
 caattatfff ca 4152

<210> 10

<211> 236

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 10

atgaattatt acattttatt atgtctatff atgttatfff catctagtta taattttaaa 60
 ttaataaata ataatatffg taatgaagat tatgatcctg gaatatgtag aataggaata 120
 ttagatggta ttataattat aatattaaag attgtaaaat atttatffat ggtggatgtg 180
 gtggtaacat gaataatfff aataattatg aagattgtat taataaatgt ttaatt 236

<210> 11

<211> 1719

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 11

atgaatatat atttaaaaaa tgcacccaat gatacaatat cgcactgtgc aaaatttaca 60
 aatcaaataa atgatattat atcatttgat attaataatt ttactaaaaa tgttttgatt 120

```

atgcgtaata atattaataa tattagaact aattttgaaa atgtgtctga tgataatagt 180
ataaaaagaa gaataacaga attttttgat aaacaaaata cgccaaattt aaaattagga 240
agtataatat caattattaa atttcaacat ttaactgtaa catatgttaa taaaataata 300
aaagaaattg taacatataa atgtaatact agagaaataa atatagtaaa tttttcatct 360
gtcacatctc aaatttcaaa ctacgataat cctatattaa atgaaatatt aaaacaatat 420
gtatataaac aaaaattaaa aaatgttact gttaataatg ataaaaagaa aataattgat 480
cctgatgatg agaaattagc tgaatctatt aaaaaaatat tagaagaaat attaaaaata 540
ttattaatta taaaaaacia tgattgtgtt gcttatgggt catttacttg ttataatata 600
aatagaagta taaaatataa tgatatagat ttatatagta ctgatgcata tagaatttta 660
atatttttta tgatatatat acattttaat attggacatg acacttgttt atttagtata 720
ccttttataa ctgggcacat atcgttaaaa tataaaaaata tatttataat agattgtata 780
tttttagata attctattat aaatgttatt aataaatctt taattaataa tatatatattt 840
atagatcccg gtttaciaat gttaaataat tttagaatgt tatcagaaaa ttttagatct 900
tataaaatat atgaaaaaat ggaagaatct ttaaataaat ataaaacatt attaaattat 960
tttgtttaata ataataataa atttaataaa caaagattaa attattgggt aaaatcagat 1020
gtttgtagaa ataattttcc atatactata gtcgacaata caatattaat atcaataaaa 1080
gaattgatag atataagtcc atatgattat ataatgattg tattagattc gccgtcagac 1140
ataatggaaa aattatctaa tattagtggg ctatttagta gaaaatatgg tgctttttta 1200
aatgaaatat tttttgaaac aaaaaaaaata aaaaataaaa taaatacata tgctggaaac 1260
acaaataaca taacacaatt aattgatgaa aataaattaa taaaattaaa tagaagtgat 1320
ataaatatgc catataatat taatcccaat aagaaatatt taattttcag taatttaaca 1380
acatctacgt atgtttactt tgagaatgat aaaatgactg atatatcagt aaaaaatcta 1440
atatcattta tatcaacagc ttgtttatat aatttggtac acaaaaaaga tgattttggg 1500
atggaattat attatttaac attacactgt cttacattta ccgaaactag aaaattaaat 1560
gaatataaag taatagatag atataaaaata aaaggcgaac ataaagaaat atcatttgtg 1620
aaaaatttat ttaattcaat atataaaaat aaaagtatgg aggacgaata tatggattat 1680
aatacattta tagatttaac taatataaat ggaggatat 1719

```

<210> 12

<211> 286

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 12

Met Thr Ile Phe Glu Ile Leu Ile Trp Ile Ile Val Leu Leu Ala Phe
 1 5 10 15

Met Phe Ile Ile Phe Leu Tyr Val Val Leu Tyr Ile Lys Arg Arg Ile
 20 25 30

Tyr Glu Ile Leu Asn Glu Asn Ile Pro Ile Glu Ile Asn Ile Asp Asn
 35 40 45

Val Asn Tyr Pro Ser Glu Leu Tyr Thr Asp Lys Phe Asn Pro Asn Val
 50 55 60

Leu Lys Tyr Leu Ile Lys Ile Leu Leu Asp Phe Asn Thr Glu Ile Thr
 65 70 75 80

Asn Asn Ile Ile Ile His Ser Ile Asp Tyr Met Lys Ile Tyr Tyr Ile
 85 90 95

Ser Tyr Asn Lys Lys Lys Ile Ile Lys Leu Ile Leu Asp Arg Tyr Asn
 100 105 110

Asn Leu Trp Ile Val Ile Arg Gly Thr Leu Thr Tyr Asn Glu Phe Glu
 115 120 125

His Asp Leu Arg Ile Ser Gln Val Lys Ile Asp Asn Cys Asp Met Lys
 130 135 140

Cys His Lys Gly Phe Cys Glu Ile Tyr Ser Lys Ile Gln Lys Pro Leu
 145 150 155 160

Leu Asn Leu Leu Met Thr Leu Ser Pro Asn Lys Ile Phe Ala Leu Gly
 165 170 175

His Ser Leu Gly Gly Gly Ile Leu Ser Ile Ala Ala Tyr Asp Ile Phe
 180 185 190

Asn Ile Leu Asn Lys Lys Glu Ile Ile Leu Tyr Thr Thr Gly Thr Pro
 195 200 205

Arg Val Cys Asn Lys Asp Phe Tyr Asn Asn Cys Asn Lys Tyr Asn Ile
 210 215 220

His Lys Val Glu Asn Leu Ser Asp Val Tyr Ile Asn Ala Ile Pro Ser
 225 230 235 240

Val Leu Pro Phe Tyr Asp Asn Thr Val Tyr Tyr Lys Ile Gly Lys Ile
 245 250 255

Trp Tyr Phe Asp Val Asn Tyr Gly Asn Ile Ile Leu His Lys Leu Glu
 260 265 270

Ile Tyr Phe Asn Asn Ile Asp Asn Leu Lys Tyr Leu Glu Ile
 275 280 285

<210> 13

<211> 151

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 13

Met Lys Ala Ile Cys Val Met Thr Gly Lys Val Asn Gly Ile Ile Tyr
 1 5 10 15

Phe Ile Gln Asn Ile Lys Gly Gly Ser Val His Val Lys Gly Lys Ile
 20 25 30

Val Gly Leu Ser Lys Gly Leu His Gly Phe His Val His Glu Tyr Gly
 35 40 45

Asp Val Ser Asn Gly Cys Thr Ser Ala Gly Glu His Phe Asn Pro Tyr
 50 55 60

Asn Arg Gln His Gly Asp Ile Ser Asp Lys Ile His Arg His Val Gly
 65 70 75 80

Asp Phe Gly Asn Val Tyr Ala Asp Glu Asn Gly Val Ala Asn Ile Asp
 85 90 95

Phe His Asp Asp Ile Ile Ser Leu Cys Gly Thr Asn Asn Ile Ile Gly
 100 105 110

Arg Thr Leu Val Val His Asp Ser Pro Asp Asp Leu Gly Lys Thr Asp
 115 120 125

Pro Leu Ser Lys Thr Ser Gly Asn Ser Gly Gly Arg Leu Gly Cys Gly
 130 135 140

Ile Ile Gly Ile Ala Lys Asp
 145 150

<210> 14

<211> 453

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 14

Met Tyr Asn Asn Glu Tyr Phe Thr Asn Arg Val Lys Ile His Lys Lys
 1 5 10 15

Ile Asp Thr Ile Asn Lys Asn Val Leu Tyr Leu Ala Tyr Arg Asp Leu
 20 25 30

Arg Val Tyr Asp Asn Trp Ser Phe Leu Tyr Ser Gln Asn Ile Ala Tyr
 35 40 45

Leu Asn Asn Ser Ser Met Tyr Val Leu Tyr Leu Ile Asn Lys Asn Asn
 50 55 60

Asn Ile Asn Ile Arg Gln Tyr Lys Phe Leu Tyr Glu Gly Leu Pro Glu
 65 70 75 80

Phe Glu Ser Gln Cys Lys Lys Cys Asn Val Ser Phe His Leu Leu Ser
 85 90 95

Tyr Asn Asn Asn Ile Ile Ser Asn Phe Ile Asn Lys Tyr Lys Ile Gly

100					105					110					
His	Val	Ile	Ile	Glu	Gln	Met	Pro	Leu	Leu	Phe	His	Lys	Lys	Tyr	Tyr
	115						120					125			
Leu	Asp	Pro	Leu	Lys	Lys	Leu	Asn	Val	Asn	Val	Tyr	Ile	Val	Asp	Ser
	130					135					140				
His	Asn	Ile	Ile	Pro	Val	Trp	Val	Thr	Ser	Asp	Lys	Gln	Glu	Tyr	Asn
145					150					155					160
Ala	Arg	Thr	Ile	Arg	Ile	Lys	Ile	Asn	Lys	Leu	Lys	Asp	Gln	Tyr	Leu
				165				170						175	
Ile	Glu	Phe	Pro	Lys	Val	Lys	Ile	Ser	Asn	Ile	Gln	Pro	Ile	Phe	Val
			180					185					190		
Glu	Asn	Asn	Phe	Asp	Ile	Ile	Pro	Asn	Tyr	Asp	Lys	Lys	Leu	Ile	Asn
	195						200					205			
Ile	Tyr	Glu	Ile	Val	Gly	Gly	Tyr	Thr	Asn	Gly	Ile	Asn	Arg	Met	Asn
	210					215					220				
Asn	Phe	Phe	Lys	Asn	Lys	Ile	Asn	Thr	Tyr	Lys	Asp	Lys	Lys	Asn	Asn
225					230					235					240
Pro	Asn	Tyr	Glu	Asn	Thr	Ser	Ile	Leu	Ser	Pro	Trp	Leu	His	Cys	Gly
				245					250					255	
Met	Ile	Ser	Ala	Gln	Arg	Cys	Val	Leu	Glu	Ala	Asn	Lys	Leu	Lys	Lys
			260					265					270		
Ile	Lys	Asp	Tyr	Asn	Ile	Glu	Ser	Ile	Asp	Ser	Phe	Ile	Glu	Glu	Ile
		275					280					285			
Phe	Ile	Arg	Lys	Glu	Leu	Ser	Asp	Asn	Phe	Cys	Tyr	Tyr	Asn	Asn	Asn
	290					295					300				
Tyr	Lys	Ser	Phe	Ala	Ser	Cys	Pro	Asn	Trp	Ala	Ile	Leu	Thr	Leu	Glu
305					310					315					320
Ile	His	Lys	Thr	Asp	Lys	Arg	Asn	Lys	Ile	Phe	Ser	Leu	Arg	Glu	Leu
				325				330						335	

Glu Tyr Gly Lys Thr Asp Asn Lys Leu Trp Asn Tyr Cys Gln Tyr Tyr
 340 345 350

Leu Leu Lys Phe Gly Tyr Leu Asn Gly Tyr Met Arg Met Phe Trp Ala
 355 360 365

Lys Lys Leu Ile Glu Trp Thr Asn Ser Pro Gln Asp Ala Ile Asp Lys
 370 375 380

Thr Ile Tyr Leu Asn Asp Lys Tyr Phe Phe Asp Gly Tyr Asp Pro Met
 385 390 395 400

Gly Tyr Val Asn Ile Leu Trp Ser Ile Gly Gly Leu His Asp Arg Ala
 405 410 415

Phe Lys Glu Arg Glu Met Tyr Gly Lys Ile Arg Phe Met Ser Gln Pro
 420 425 430

Leu Met Tyr Lys Lys Leu Asn Val Asn Asp Phe Tyr Asn Asn Phe Asp
 435 440 445

Asn Val Ile Lys Ser
 450

<210> 15

<211> 263

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 15

Met Met Asp Asp Ile Asn Leu Tyr Asn Glu Ser Glu Arg Leu Gln Thr
 1 5 10 15

Phe Glu Asn Trp Pro Ile Asn Phe Ile Thr Pro Glu Ser Phe Ala Ser
 20 25 30

Asn Gly Phe Tyr Tyr Ile Gly Glu Asn Asp Thr Val Lys Cys Val Tyr
 35 40 45

Cys Gly Val Gln Ile Asn Lys Trp Val Glu Gly Asp Lys Pro Glu Ile
 50 55 60

Asp His Lys Lys Phe Ser Pro Asn Cys Ser Phe Leu Lys Ser Asn Asp
 65 70 75 80

Gly Ile Asp Glu Cys Gly Asn Asn Lys Asn Ile Ser Asn Ile Thr Gln
 85 90 95

Lys Gly Ala Val His Pro Asn Leu Ser Asn Ile Val Glu Arg Leu Lys
 100 105 110

Thr Tyr Lys Glu Trp Pro Ile Ser Met Pro Ile Ser Thr Glu Lys Leu
 115 120 125

Glu Ala Gly Phe Phe Tyr Thr Gly Lys Ser Asp Lys Val Lys Cys Phe
 130 135 140

Tyr Cys Asp Gly Gly Leu Asn Lys Trp Glu Thr Asp Asp Asp Pro Trp
 145 150 155 160

Ile Gln His Ala Arg Trp Phe Asp Lys Cys Asp Tyr Val Lys Leu Val
 165 170 175

Lys Gly Lys Asp Phe Ile Gln Lys Val Met Thr Gln Ser Thr Phe Ile
 180 185 190

Lys Ser Ser Lys Lys Glu Asn Ile Pro Glu Ile Asn Ile Ser Asn Asp
 195 200 205

Glu Lys Asn Asp Ile Lys Leu Cys Lys Ile Cys Tyr Ile Glu Glu Arg
 210 215 220

Val Ile Cys Phe Val Pro Cys Gly His Ile Phe Cys Cys Gly Lys Cys
 225 230 235 240

Ala Ile Ser Met Asp Lys Cys Pro Val Cys Arg Asn Lys Ile Lys Asn
 245 250 255

Leu Thr Arg Val Tyr Tyr Pro
 260

<210> 16

<211> 295

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 16

Met Asn Phe Met Pro Gln Tyr Tyr Tyr Ile Ser Asp Ile Asn Asn Glu
 1 5 10 15

Ile Glu Tyr Asp Glu Asn Phe Asn Pro Gly Lys Lys Phe Asp Phe Lys
 20 25 30

Arg Gln Gly Gln Ile Lys Leu Leu Met Asn Glu Ile Arg Phe Leu Thr
 35 40 45

Glu Asp Val Glu Leu His Lys Asn Tyr Lys Asn Glu Asn Ile Asn Ile
 50 55 60

Leu Tyr Ile Gly Ser Gly Lys Gly Tyr His Ile Pro Leu Leu Ile Asn
 65 70 75 80

Met Tyr Ser Asp Tyr Lys Ile Gln Trp Asp Leu Tyr Asp Pro Cys Gly
 85 90 95

His Cys Glu Lys Leu Tyr Asn Ile Gln Lys Asn Asn Asn Asn Ile Lys
 100 105 110

Ile Tyr Asp Thr Tyr Phe Asn Lys Ser Asp Val Glu Lys Tyr Glu Asn
 115 120 125

Ile Asp Asn Leu Leu Phe Ile Thr Asp Ile Arg Thr Val Asp Asn Pro
 130 135 140

Asp Asp Glu Pro Asn Thr Lys Asn Leu Ile Asn Asp Tyr Glu Leu Gln
 145 150 155 160

Asn Tyr Ile Leu Lys Glu Leu Lys Pro Ile Ser Leu Val Lys Gln Arg
 165 170 175

Asp Pro Phe Pro Asn Asp Trp Asp Asp Ser Tyr Lys Leu Ser Ile Pro

```

<400> 17

Met Asp Val Asn Lys Tyr Ile Tyr Glu Tyr Asn Lys Pro Leu Tyr Tyr
1          5          10          15

Thr Tyr Tyr Asp Leu Cys Arg Asn Met Asn Asp Val Ile Tyr Asp Tyr
          20          25          30

Asn Asn Asn Thr Ile Lys Lys Tyr Met Asp Ile Leu Leu Ser Gln Ile
          35          40          45

Gln Phe Leu Ser Asn Ile Asn Ile Lys Lys Ile Cys Asn Asn Thr Asn
          50          55          60

```

Gly Ile Val Asn Ile Leu Tyr Ile Gly Ser Ser Lys Ala Tyr His Phe
65 70 75 80

Asn Ile Leu Asn Glu Leu Tyr Lys Asn Leu Thr Asn Ile Gln Trp Tyr
85 90 95

Phe Tyr Asp Ile Ile Asp Pro Cys Ile Ser Val Glu Arg Leu Ser Tyr
100 105 110

Asn Ile Ile Phe Asn Arg Leu Phe Thr Glu Asp Asp Ile Ile Asp Phe
115 120 125

Lys Asp Lys Tyr Pro Leu Ile Leu Ile Tyr Asp Tyr Asp Asp Lys Ser
130 135 140

Asn Val Arg Asp Leu Leu Tyr His Tyr Asn Met Gln Asn Asn Ile Ile
145 150 155 160

Ile Tyr Leu Asn Pro Thr Tyr Ser Leu Leu Lys Phe Lys Tyr Met Pro
165 170 175

Ile Asn Lys Trp Asn Asn Ser Phe Asn Asp Tyr Glu Tyr Ile Ser Thr
180 185 190

Gly Ile Lys Tyr Leu Pro Thr Ile Lys Ser Leu His Thr Arg Asn Ile
195 200 205

Ile Asp Asn Lys Asn Ile Met Thr Leu Thr Phe Asp Glu Ile Glu Ser
210 215 220

Glu Asn Tyr Tyr Glu Lys Met Asn Tyr Tyr Asn Asn Cys Ser Gly Tyr
225 230 235 240

Asn Asp Ile Tyr Asn Asn Ile Ser Gly Tyr Ile Leu Asn Lys Ser Asn
245 250 255

Leu Tyr Asp Asn Asn Asn Ser Ala Tyr Asn Ile Leu Lys Ile Tyr Glu
260 265 270

Lys Asn Ile Ile Asn Thr Ile Asn Glu Asp Lys Ile Phe Arg Ser Lys
275 280 285

Glu Lys Tyr Ile
290

<210> 18

<211> 1089

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 18

Met Pro Phe Leu Gly Thr Gly Ile Leu Lys Phe Asp Ile Thr Gln Leu
1 5 10 15

Gln Asn Lys Glu Lys Gly Ser Asp Tyr Asn Ala Ile Arg Tyr Leu Lys
20 25 30

Arg Ile Leu Asn Lys Pro Cys Asp Asn Asp Asp Ile Leu Ile Pro Tyr
35 40 45

Asp Lys Leu Glu Ser Lys Glu Ile Asn Ile Ile Tyr Asn Trp Tyr Ile
50 55 60

Ile Lys Pro Ser Ser Leu Glu Gln Phe Ile Val Cys Lys Cys Lys Asp
65 70 75 80

Tyr Asp Thr Glu Glu Ile Ile Tyr Ile Leu Phe Asp Ile Tyr Glu Tyr
85 90 95

Phe Leu Cys Asp Tyr Glu Leu Ser Glu Ser Asn Thr Lys Leu Lys Asn
100 105 110

Ile Lys Asn Asn Ile Lys Tyr Lys Asn Ser Phe Asn Ser Ser Tyr Leu
115 120 125

Val Leu Glu Asp Tyr Lys Ile Ile Thr Asn Glu Val Asn Ile Gln Tyr
130 135 140

Tyr Tyr Asn Tyr Thr Glu Asp Ser Lys Ile Thr Leu Asn Asn Asn Asp
145 150 155 160

Leu Val Leu Phe Met Thr Pro Tyr Lys Ile Glu Lys Ile Tyr Ser Lys
 165 170 175

Asn Ile Phe Ile Asn Gln Tyr Arg Trp Phe Tyr Val Leu Asn Asn Ile
 180 185 190

Glu Pro Ser Gly Ser Tyr Arg Ile Asn Met Asp Asn Met Gln Lys Ile
 195 200 205

Lys Thr Tyr Asn Lys Asn Lys Thr Ser Tyr Tyr Cys Lys Asn Pro Lys
 210 215 220

Leu Leu Phe Ser Asn Tyr Val Lys Ile Asp Lys Ile Pro Ala Ser Arg
 225 230 235 240

Val Ser Ile Asp Ile Glu Cys Gln His Phe Gly Glu Phe Pro Thr Ala
 245 250 255

Asn Lys Phe Pro Ile Ser His Ile Cys Ile Asp Trp Tyr Met Asp Lys
 260 265 270

Asn Thr Asn Pro Ile Lys Lys Ile Ile Thr Leu Ile Asn Tyr Glu Ile
 275 280 285

Ile Lys Asn Tyr Val Gly Lys Lys Asp Lys Phe Ile Tyr Thr Glu Val
 290 295 300

Asn Lys Leu Leu Asn Thr Asn Lys Val Tyr Ile Thr Ile Tyr Cys Thr
 305 310 315 320

Glu Lys Tyr Met Leu His Phe Val Leu Tyr Thr Leu Arg Gln Asp Phe
 325 330 335

Asp Tyr Val Leu Thr Tyr Asn Gly His Asn Phe Asp Phe Thr Tyr Ile
 340 345 350

Gln Arg Arg Lys Ile Asn Lys Leu Lys Gly Leu Cys Leu Asp Asn Val
 355 360 365

Tyr Ser Thr Asn Glu Ile Lys Ile Ser Lys Phe Ser Tyr Asn Gln Asp
 370 375 380

Thr Thr Tyr Glu Ile Asp Ser Thr Asn Gly Ile Ile Phe Leu Asp Leu

```

385                               390                               395                               400

Tyr Asn Tyr Ile Lys Lys Thr Tyr Pro Ser Ser Asn Tyr Lys Leu Ser
      405                               410                               415

Glu Ile Thr Lys Glu Arg Phe Asn Ile Phe Cys Lys Ile Ser Tyr Asn
      420                               425                               430

Asn Asn Glu Tyr Ile Ile Glu Pro Leu Asn Thr Lys Ala Asn Lys Asn
      435                               440                               445

Lys Ile Ser Ile Phe Tyr Asp Val Ile Arg Thr Ala Asn Tyr Cys Phe
      450                               455                               460

Ile Asn Asn Asn Pro Tyr Lys Lys Asn Lys Thr Glu Ile Ile Asp Asp
465                               470                               475                               480

Ile Glu Lys Leu Tyr Asp Leu Thr Ser Ile Lys Asn Ser His Asn Lys
      485                               490                               495

Lys Phe Thr Ile Tyr Glu Asn Asp Ile Pro Ile Asn Asp Asn Tyr Ala
      500                               505                               510

Thr Val Met Leu Ser Lys Asp Asp Val Asp Ile Gly Asp Lys Asn Ala
      515                               520                               525

Tyr Val Phe Thr Lys Glu Lys Ser Asp Asn Ile Ala Tyr Tyr Cys Thr
      530                               535                               540

His Asp Thr Val Leu Cys Asn Cys Ile Phe Lys Tyr Asp Met Ile His
545                               550                               555                               560

Asp Lys Ile Ile Ala Phe Ser Asn Glu Tyr Leu Leu Pro Gln Cys Met
      565                               570                               575

Ala Phe Lys Tyr Lys Ser Ser Asn Asn Ile Ser Gly Leu Leu Lys Thr
      580                               585                               590

Leu Tyr Ser Asn Lys Thr Met Ile Tyr Pro Gly Asn Val Glu Phe Glu
      595                               600                               605

Lys Phe Glu Gly Gly Tyr Val Ile Glu Pro Lys Gln Lys Tyr Ile Asp
      610                               615                               620

```

Ser Leu Thr Ala Val Phe Asp Phe Asn Ser Glu Tyr Pro Ser Ile Ile
625 630 635 640

Ile Glu Ala Asn Leu Ser Pro Glu Val Val Lys Val Ile Lys Leu Phe
645 650 655

Asp Asp Glu Glu Ala Ala Asn Lys Val Glu Lys Tyr Leu Lys Asp Asn
660 665 670

Tyr Lys Tyr Pro Asp Tyr Cys Tyr Ile Lys Ile Ile Lys Asp Lys Met
675 680 685

Tyr Lys Phe Ile Leu Met Asp Arg Arg Glu Leu Gly Val Thr Thr Gln
690 695 700

Met Val Lys Gly Arg Glu Met Lys Asn Met Tyr Lys Asp Leu Lys Asn
705 710 715 720

Lys Asn Lys Asp Asn Val Asp Leu His Asn Phe Tyr Ser Ser Ala Leu
725 730 735

Tyr Ser Lys Lys Ile Thr Ile Asn Ser Met Tyr Gly Leu Ser Gly Ser
740 745 750

Glu Arg Phe Ile Phe Asn Ser Pro Tyr Cys Ala Glu Tyr Cys Val Gln
755 760 765

Gly Gln Asn Cys Ile Lys Tyr Ile Gln Thr Leu Val Asn Asn Ser Lys
770 775 780

Tyr Ile Asp Asn Val Leu Ile Leu Asn Lys Cys Asn Asn Pro Phe Thr
785 790 795 800

Asn Glu Pro Ile Lys Thr Asn Tyr Pro Gly Asn Leu Asn Val Asn Phe
805 810 815

Thr Phe Asn Val Lys Tyr Gly Asp Thr Ser Leu Phe Ile Thr Val Asn
820 825 830

Phe Glu Ser Lys Phe Asn Ser Lys Glu Glu Lys Val Lys Val Gly His
835 840 845

Lys Cys Phe Thr Phe Leu Gly Asn Val Ile Asn Asp Lys Lys Asn Lys
 850 855 860

Ile Leu Thr Asp Asn Phe Glu Phe Glu Tyr Glu Lys Met Tyr Tyr Trp
 865 870 875 880

Met Ile Leu Leu Lys Lys Lys Tyr Ile Gly Glu Val Val Ile Asn Met
 885 890 895

Asp Pro Leu Gln Leu Met Asp Asp Thr Lys Gly Thr Ala Leu Ile Arg
 900 905 910

Arg Asp Cys Thr Val Ile His Lys Thr Ile Leu Lys Asn Thr Ile Asn
 915 920 925

Ile Leu Lys Asp Phe Leu Thr Asn Asp Asn Thr Gly Ile Asn Ile Asn
 930 935 940

Val Lys Ile Asn Asp Tyr Leu Ser Ser Ala Phe Lys Asn Ile Ile Glu
 945 950 955 960

Asn Ile Gln Asn Leu Asp Ile Asn Asp Phe Lys Lys Ser Val Lys Tyr
 965 970 975

Ser Gly Val Tyr Lys Asp Pro Asn Tyr Pro Ile Glu Leu Cys Val Lys
 980 985 990

Glu Tyr Asn Leu Lys Asn Pro Asn Asp Lys Ile Thr Lys Gly Gln Arg
 995 1000 1005

Phe Asp Phe Ile Tyr Ala His Lys Ile Asn Glu Trp Ser Lys Asp
 1010 1015 1020

Lys Lys Trp Asn Ile Lys Tyr Thr Ile Asp Ile Ser Lys His Val
 1025 1030 1035

Ile Ile Leu Glu Asp Tyr Leu Lys Asn Lys Asn Asn Tyr Arg Ile
 1040 1045 1050

Cys Val Glu Lys Tyr Ile Lys Asp Ile Leu Ser Asn Leu Asp Gln
 1055 1060 1065

Ile Ile Asn Asp Lys Asn Ile Ile Lys Asn Ile Asp Ile Met Leu
 1070 1075 1080

Asn Ser Tyr Glu Pro Gln
 1085

<210> 19

<211> 611

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 19

Met Asn Asp Ile Asp Lys Asn Asn Ile Leu Asn Asn Lys Tyr Ile Gly
 1 5 10 15

Phe His Thr Ile Lys Glu Tyr Leu Asp Lys Tyr Lys Cys Pro Leu Gln
 20 25 30

Phe Phe Val Gly Ala Pro His Ser Tyr Gln Ser Thr Glu Tyr Leu Asn
 35 40 45

Lys Ser Tyr Thr Gly Arg Thr Ile Phe Val His Ser Lys Tyr Val Gly
 50 55 60

Asn Ile Ala Lys Asp Lys Asn Ser Val Ala Leu Arg Asn Ile Lys Lys
 65 70 75 80

Glu Leu Leu Tyr Leu Gln Asn Met Glu Ile Asn Asn Ser Gly Thr Val
 85 90 95

Val His Leu Ser Leu Tyr Tyr Asn Lys Asn Gln Glu Glu Ser Leu Lys
 100 105 110

Tyr Val Ala Asn Glu Leu Asn Lys Phe Cys Lys Val Leu Asp Asn Ile
 115 120 125

Asp Asn Asn Tyr Phe Asn His Ile Ile Phe Glu Thr Thr Asn Asp Ile
 130 135 140

Arg His Leu Gly Ala Lys Thr Glu Asp Phe Lys Ile Leu Tyr Asp Asn

145		150		155		160
Leu Asp Ser Asn	Ala Lys Lys Arg	Ile Lys Phe Cys	Ile Asp Thr Ser			
	165		170			175
His Ile Phe Val	Thr Phe Tyr Asn	Ile Asn Thr Val	Lys Gly Met Ile			
	180		185			190
Asn Tyr Leu Ala	Lys Phe Asp Leu	Leu Ile Gly Leu	Asp Lys Ile Ile			
	195		200			205
Leu Ile His Leu	Asn Asp Ser Cys	Gly Leu Pro Leu	Ser Ser Tyr Lys			
	210		215			220
Pro His Glu Ala	Ile Gly Lys Gly	Asn Ile Phe Lys	Asn Tyr Lys Asp			
	225		230			235
Asp Leu Ser Ser	Leu His Ile Leu	Lys Thr Tyr Ala	Thr Leu Tyr Asn			
	245		250			255
Ile Pro Cys Ile	Leu Glu Arg Arg	Asn Glu Val Pro	Asp Gln Ser Ile			
	260		265			270
Met Asp Glu Met	Lys Ile Tyr Leu	Asp Ile Lys Gln	Asn Met Asn Ile			
	275		280			285
Asp Asn Phe Met	Ser Met Ile Asn	Lys His Lys Ile	Leu Leu Val Leu			
	290		295			300
Asn Lys Phe Ala	Asp Ile Tyr Asn	Ile Leu Asn Glu	Ile Lys Tyr Lys			
	305		310			315
Ala Phe Leu Asn	Ala Ala Tyr Val	Ile Gln Asn Thr	Pro Val Ile Ile			
	325		330			335
Phe Lys Tyr Lys	Asn Val Asn Asn	Lys Phe Ile Leu	Asn Glu Ser Lys			
	340		345			350
Glu Asn Ile Ile	Gln Lys Tyr Lys	Asn Leu Lys Ser	Ile Gly Thr Ser			
	355		360			365
Ile Ser Asp Ile	Ile Tyr Glu Leu	Leu Ser Thr Asn	Lys Val Glu Lys			
	370		375			380

Leu Ile Asn Leu Glu Asn Asn Ser Ser Tyr Lys Tyr Ile Lys Ile Leu
 385 390 395 400

Thr Ser Ile Leu Phe Ile Gly Pro Lys Lys Ala Gln Ser Leu Leu Lys
 405 410 415

Leu Asn Ile Lys Asn Ile Asn Asp Leu Ile Glu Lys Lys Asp Asn Ile
 420 425 430

Ile Asn Met Gly Ile Leu Thr Ile His Glu Ile Lys Ile Ile Glu Tyr
 435 440 445

Ile Lys Asp Met Glu Pro Val Ser Arg Asn Phe Ile Asn Asp Leu Lys
 450 455 460

Gln Asn Ile Asn Leu Ser Ser Glu Cys Glu Trp Tyr Ile Leu Gly Ser
 465 470 475 480

Tyr Ala Arg Gly Leu Asp Tyr Ser Lys Asp Ile Asp Ile Leu Ile Ile
 485 490 495

Asp Phe Thr Ile Asp Lys Phe Leu Glu Glu Leu Lys Lys Ile Ala Lys
 500 505 510

Leu Met Tyr Ile Ile Arg Lys Gly Asn Asn Ile Phe Ser Gly Val Phe
 515 520 525

Leu Trp Gln Gly Lys Lys Phe Ile Leu Glu Ile Asn Lys Val Asn Asn
 530 535 540

Lys Glu Lys Tyr Thr Ala Ile Met His Phe Thr Gly Ser Lys Lys Phe
 545 550 555 560

Asn Ile Phe Met Arg Asn Ile Ala Lys Ser Glu Asn Met Ile Leu Asn
 565 570 575

Gln Tyr Ser Leu Lys Lys Asp Asn Val Glu Leu Pro Ile Thr Lys Glu
 580 585 590

Glu Asp Ile Phe Asp Tyr Leu Lys Ile Lys Tyr Ile Pro Asn Asn Lys
 595 600 605

Arg Asn Ile
610

<210> 20

<211> 1381

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 20

Met Tyr Phe Asn Ile Leu Asn Gly Leu Leu Trp Lys Tyr Tyr Ile Ile
1 5 10 15

Lys Arg Lys Lys Tyr Ile Tyr Asp Met Leu Glu Tyr Leu Leu Leu Ile
20 25 30

Leu Phe Phe Thr Leu Leu Tyr Ser Phe Lys Lys Asn Ile Lys Tyr Tyr
35 40 45

Asp Asn Asp Leu Asn Asn Ile Asn Lys Ile Asn Asn Asn Thr Asn Ile
50 55 60

Ile Tyr Tyr Pro Lys Ser Asn Ile Ser Ile Lys Ile Ile Glu Asn Val
65 70 75 80

Ala Lys Glu Leu Lys Ile Asn Lys Tyr Tyr Gly Ser Ser Asn Glu Asn
85 90 95

Glu Ile Ile Asn Phe Ile Asp Thr Asn Glu Thr Ile Phe Ile Leu Phe
100 105 110

Asn Asn Thr Cys Glu Asn Leu Leu Tyr Thr Ile Arg Phe Asn Asn Asn
115 120 125

Glu Asn Asn Asp Arg Leu Leu Ile Asn Ile Gln Trp Leu Ile Asn Met
130 135 140

Asn Tyr Leu Arg Leu Leu Ser Asn Lys Asn Ile Asn Ile Asp Ile Asp
145 150 155 160

Ile Asn Glu Tyr Ile Tyr Lys Asn Phe Asn Thr Asn Ile Leu Phe Tyr
 165 170 175

Thr Tyr Tyr Ser Ile Leu Ile Ile Ala Phe Ile Ser Phe Ile Leu Lys
 180 185 190

Asn Asn Asn Asp Asn Asn Asp Pro Met Phe Lys Ile Ile Lys Val Pro
 195 200 205

Lys Ile Leu Ile Tyr Ile Ser Asn Phe Ile Cys Ser Ile Pro Phe Gly
 210 215 220

Ile Ile Tyr Ser Val Phe Gly Thr Ile Ile Leu Thr Ile Ser Glu Asp
 225 230 235 240

Pro Leu Ile Asn Asn Asn Asn Asn Ile Ile Met Phe Leu Ile Leu Leu
 245 250 255

Ile Tyr Phe Ile Ser Val Ile Ser Met Ala Tyr Leu Asn Phe Phe Ile
 260 265 270

Leu Leu Ile Tyr Lys Tyr Lys Ile Phe Val Ile Met Cys Val Tyr Val
 275 280 285

Leu Thr Ile Ile Pro Ile Thr Leu Tyr Asn Asn Leu Asn Ser Asp Ile
 290 295 300

Asn Ile Phe Ile Gly Leu Ile Pro His Ile Pro Leu Tyr Trp Ile Phe
 305 310 315 320

Asp Gln Leu Asn Tyr Val Glu Lys Gln Asn Lys Ser Leu Thr Phe Asn
 325 330 335

Asn Asn Ile Ser Tyr Ser Ile Tyr Ser Lys Ser Ile Leu Ile Ser Ile
 340 345 350

Ile Tyr Leu Ile Leu Gln Ser Phe Ile Tyr Ile Ser Ile Ile His Ile
 355 360 365

Ile Lys Leu Ile Tyr Lys Ile Cys Lys Lys Tyr Met Lys Met Lys Tyr
 370 375 380

Ile Tyr Ile Ile Asn Glu Asn Asn Asn Tyr Met Leu Glu Thr Glu Asn

385		390		395		400
Asn Asp Tyr Tyr Val Lys Ile Gln Asn Ile Tyr Lys Tyr Tyr Asp Asn						
	405			410		415
Asn Phe Ile Leu Asn Asn Ile Cys Leu Asp Ile Ile Lys Asn Asn Thr						
	420			425		430
Thr Val Leu Leu Gly Asn Asn Ser Ala Gly Lys Ser Thr Leu Leu Ser						
	435			440		445
Ile Ile Phe Gly Leu Ile Lys Pro Asn Lys Gly Lys Ile Leu Thr Asn						
	450			455		460
Asn Ile Lys Ile Gly Tyr Cys Pro Gln Asn Asn Ile Phe Thr Asp Phe						
	465			470		475
Thr Val Lys Glu Asn Ile Tyr Leu Phe Asn Ile Leu Arg Gly Leu Ser						
		485		490		495
Ser Leu Gln Ser Lys Ile Lys Thr Asn Glu Ile Ile Ile Tyr Leu Lys						
	500			505		510
Leu His Asp Ile Glu Asn Cys Ile Ile Thr Glu Leu Ser Glu Cys Ser						
	515			520		525
Lys Arg Lys Leu Gln Leu Ala Phe Ser Leu Ile Asp Asp Ser Asp Phe						
	530			535		540
Ile Leu Ile Asp Glu Pro Thr His Asn Ile Asp Leu Lys Ser Lys Gln						
	545			550		555
Glu Ile Trp Asp Leu Ile Ser Leu Leu Lys Arg Asn Lys Thr Ile Leu						
		565		570		575
Ile Thr Thr His Cys Ile Asp Glu Val Glu Leu Leu Ala Asp Asn Leu						
		580		585		590
Ile Ile Leu Asn Asn Gly Asn Val Lys Tyr Asn Ser Thr Leu Phe Asn						
	595			600		605
Ile Lys Lys Asp Ala Asn Val Thr Tyr Lys Leu Ser Ile His Asn Asn						
	610			615		620

Ser Thr Asp Asp Lys Ile Lys Asn Ile Ile Ile Asn Ser Gly Phe Ile
625 630 635 640

Ile Leu Asn Ile Asn Lys Ile Asp Glu Asn Asn Ser Ile Tyr Asn Ile
645 650 655

Tyr Lys Thr Glu Asn Ser Asn Phe Leu Lys Leu Phe Glu Leu Leu Glu
660 665 670

Asn Val Asn Cys Asp Ile Ile Tyr Phe Lys Ser Asn Thr Leu Asn Asp
675 680 685

Ile Leu Tyr Lys Leu Cys Ser Glu Asp Ile Ile Ile Pro Asp Asp Ser
690 695 700

Tyr Ile Asn Asn Leu Asn Tyr Asn Asp Met Phe Ile Ser Glu Ile Met
705 710 715 720

Gly Phe Asn Lys Ile Met Arg Gln Phe Ile Glu Leu Phe Lys Arg Asn
725 730 735

Ile Tyr Tyr Ile Arg Lys Asn Ile Leu Leu Phe Val Ile Ile Asn Phe
740 745 750

Ile Leu Ser Ile Leu Ile Val Tyr Val Gly Ile Val Tyr Ile Lys Lys
755 760 765

Tyr Glu Asn Leu Tyr Leu Tyr Asn Phe Val Ile Ile Asn His Asn Ile
770 775 780

Asp Asn Phe Ile Asn Asn Ser Asn Tyr Leu Leu Asp Ile Lys His Asn
785 790 795 800

Ser Thr Tyr Asn Lys Ile Thr Tyr Ile Pro Leu Phe Lys Tyr Ser Gly
805 810 815

Ser Ile Ala Ile Asn Ile Ile Ser Asn Ile Ile Ala Lys Ile Asn Ile
820 825 830

Pro Asn Ile Glu Lys Asp Ile Ile Thr Thr Ile Phe Tyr Pro Met Tyr
835 840 845

Gln Asn Lys Thr Ser Ile Leu Thr Asn Leu Phe Ile Ser Ile Ile Leu
850 855 860

Gln Leu Tyr Cys Ile Asn Tyr Asn Lys Leu Ile Lys Lys Asp Asn Ile
865 870 875 880

Asn Lys Thr Arg Lys Gln His Ile Ile Asn Gly Cys Asn Pro Glu Leu
885 890 895

His Trp Ile Thr Thr Leu Leu Phe Asn Met Ile Leu Phe Ser Ile Ser
900 905 910

Val Ile Pro Ile Ile Leu Tyr Met Leu Asn Ile Lys Ser Phe Phe Asp
915 920 925

Leu Ile Ile Leu Tyr Phe Ile Leu Ile Ile Asn Ala Leu Ser Phe Met
930 935 940

Leu Phe Ser Ile Ile Ile Leu Met Phe Asp Asn Gln Ser Asp Lys Ile
945 950 955 960

Ile Leu Ile Leu Val Phe Ile Leu Gly Ile Leu Leu Pro Ile Tyr Lys
965 970 975

Ile Lys Tyr Lys Asn Ile Ile Leu Asp Ile Leu Ser Tyr Ile Phe Ile
980 985 990

Pro Ser Cys Ile Ser Met Ser Ile Ile Glu Tyr Leu Asn Thr His Lys
995 1000 1005

Leu Asn Tyr Ile Ile Ser Ile Ile Ile Gln Ile Leu Leu Tyr Leu
1010 1015 1020

Ile Leu Ile Ile Leu Ile Glu Arg Gly Leu Ile Asp Ile Ile Tyr
1025 1030 1035

Asn Lys Ile Ile Asn Leu Lys Tyr Asn Arg Lys Asn Asn Asn Tyr
1040 1045 1050

Phe Glu Leu Gln Asn Ile Asn Lys Tyr Thr Asp Tyr Asn Ser Ser
1055 1060 1065

Leu Ile Met Ser Asn Val Tyr Lys Ile Tyr Asn Asn Lys Leu Ala
 1070 1075 1080

Leu Asn Asn Ile Asn Phe Lys Ile Ser Glu Gly Lys Cys Phe Gly
 1085 1090 1095

Ile Ile Gly Gly Asn Gly Cys Gly Lys Ser Thr Ile Phe Lys Ile
 1100 1105 1110

Leu Ser Gly Glu Glu Cys Val Thr Lys Gly Asn Ile Tyr Ile Gly
 1115 1120 1125

Cys Ser Asn Arg Ser Trp Ile Leu Lys Ser Asn Tyr Phe Lys Lys
 1130 1135 1140

Ile Ser Tyr Cys Ser Gln Phe Phe Gly Ile Asp Thr Phe Leu Thr
 1145 1150 1155

Gly Arg Gln Asn Leu Lys Leu Ile Met Ile Leu Asn Gly Phe Ser
 1160 1165 1170

Asp Lys His Ile Gln Tyr Tyr Ile Asn Ile Trp Leu Lys Leu Leu
 1175 1180 1185

Asn Ile Glu Lys Tyr Ala Asp Lys Ala Val Tyr Thr Tyr Ser Thr
 1190 1195 1200

Gly Ile Ile Lys Arg Leu Lys Ile Ala Met Ser Leu Ala Pro Arg
 1205 1210 1215

Ser Ile Leu Thr Leu Met Asp Glu Pro Thr Ser Gly Ile Asp Ile
 1220 1225 1230

Val Ser Lys Gln Ile Ile Trp Lys Thr Ile Lys Tyr Ile Ile Asn
 1235 1240 1245

Tyr Asn Tyr Tyr Asn Tyr Tyr Lys His Ser Ile Leu Ile Ser Ser
 1250 1255 1260

Asn Asn Ile Glu Glu Ile Glu Tyr Leu Cys Ser Asn Val Ile Ile
 1265 1270 1275

Leu Asp Ser Gly Asn Ile Met Tyr Asn Asp Thr Leu Glu Asn Ile

1280		1285		1290
Lys Asn Ile His Ser Thr	Lys Ile Ile Asn Ile	Lys Leu Leu His		
1295	1300	1305		
Tyr Asp Asn Asn Lys Ile	Cys Lys Ile Lys Asn	Lys Leu Lys Asn		
1310	1315	1320		
Lys Gly Phe Met Leu Lys	Ser Asp Asn Lys Phe	Lys Leu Thr Phe		
1325	1330	1335		
Cys Val Ser Lys Asn Ile	Asn Leu Lys Tyr Ser	Glu Leu Phe Lys		
1340	1345	1350		
Ile Leu Tyr Ile Leu Lys	Asn Asn Tyr Ser Asp	Ile Ile Asp Gln		
1355	1360	1365		
Tyr Asp Ile Ser Asp Thr	Asn Ile Glu Gln Leu	Phe Ser		
1370	1375	1380		

<210> 21

<211> 79

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 21

Met Asn Tyr Tyr Ile Leu Leu Cys Leu Phe Met Leu Phe Ser Ser Ser
1 5 10 15
Tyr Asn Phe Lys Leu Ile Asn Asn Asn Ile Cys Asn Glu Asp Tyr Asp
20 25 30
Pro Gly Ile Cys Arg Ile Gly Asp Ile Arg Trp Tyr Tyr Asn Tyr Asn
35 40 45
Ile Lys Asp Cys Lys Ile Phe Ile Tyr Gly Gly Cys Gly Gly Asn Met
50 55 60
Asn Asn Phe Asn Asn Tyr Glu Asp Cys Ile Asn Lys Cys Leu Ile
65 70 75

<210> 22

<211> 572

<212> PRT

<213> Amsacta moorei entomopoxvirus

<400> 22

Met Asn Ile Tyr Leu Lys Asn Ala Ser Asn Asp Thr Ile Ser His Leu
 1 5 10 15

Ser Lys Phe Thr Asn Gln Ile Asn Asp Ile Ile Ser Phe Asp Ile Asn
 20 25 30

Asn Phe Thr Lys Asn Val Leu Ile Met Arg Asn Asn Ile Asn Asn Ile
 35 40 45

Arg Thr Asn Phe Glu Asn Val Ser Asp Asp Asn Ser Ile Lys Arg Arg
 50 55 60

Ile Thr Glu Phe Phe Asp Lys Gln Asn Thr Pro Asn Leu Lys Leu Gly
 65 70 75 80

Ser Ile Ile Ser Ile Ile Lys Phe Gln His Leu Thr Val Thr Tyr Val
 85 90 95

Asn Lys Ile Ile Lys Glu Ile Val Thr Tyr Lys Cys Asn Thr Arg Glu
 100 105 110

Ile Asn Ile Val Asn Phe Ser Ser Val Thr Ser Gln Ile Ser Asn Tyr
 115 120 125

Asp Asn Pro Ile Leu Asn Glu Ile Leu Lys Gln Tyr Val Tyr Lys Gln
 130 135 140

Lys Leu Lys Asn Val Thr Val Asn Asn Asp Lys Lys Lys Ile Ile Asp
 145 150 155 160

Pro Asp Asp Glu Lys Leu Ala Glu Ser Ile Lys Lys Ile Leu Glu Glu
 165 170 175

Ile Leu Lys Ile Leu Leu Ile Ile Lys Asn Asn Asp Cys Val Ala Tyr
 180 185 190

Gly Ser Phe Thr Cys Tyr Asn Ile Asn Arg Ser Ile Lys Tyr Asn Asp
 195 200 205

Ile Asp Leu Tyr Ser Thr Asp Ala Tyr Arg Ile Leu Ile Phe Phe Met
 210 215 220

Ile Tyr Ile His Leu Thr Ile Gly His Asp Thr Cys Leu Phe Ser Ile
 225 230 235 240

Pro Phe Ile Thr Gly His Ile Ser Leu Lys Tyr Lys Asn Ile Phe Ile
 245 250 255

Ile Asp Cys Ile Phe Leu Asp Asn Ser Ile Ile Asn Val Ile Asn Lys
 260 265 270

Ser Leu Ile Asn Asn Ile Tyr Phe Ile Asp Pro Gly Leu Gln Met Leu
 275 280 285

Asn Asn Phe Arg Met Leu Ser Glu Asn Phe Arg Ser Tyr Lys Ile Tyr
 290 295 300

Glu Lys Met Glu Glu Ser Leu Asn Lys Tyr Lys Thr Leu Leu Asn Tyr
 305 310 315 320

Phe Val Asn Asn Asn Asn Lys Phe Asn Lys Gln Arg Leu Asn Tyr Trp
 325 330 335

Leu Lys Ser Asp Val Cys Arg Asn Asn Phe Pro Tyr Thr Ile Val Asp
 340 345 350

Asn Thr Ile Leu Ile Ser Ile Lys Glu Leu Ile Asp Ile Ser Pro Tyr
 355 360 365

Asp Tyr Ile Met Ile Val Leu Asp Ser Pro Ser Asp Ile Met Glu Lys
 370 375 380

Leu Ser Asn Ile Ser Gly Leu Phe Ser Arg Lys Tyr Gly Ala Phe Leu
 385 390 395 400

Asn Glu Ile Phe Phe Glu Thr Lys Lys Ile Lys Asn Lys Ile Asn Thr
 405 410 415

Tyr Ala Gly Asn Thr Asn Asn Ile Thr Gln Leu Ile Asp Glu Asn Lys
 420 425 430

Leu Ile Lys Leu Asn Arg Ser Asp Ile Asn Met Pro Tyr Asn Ile Asn
 435 440 445

Pro Asn Lys Lys Tyr Leu Ile Phe Ser Asn Leu Thr Thr Ser Thr Tyr
 450 455 460

Val Tyr Phe Glu Asn Asp Lys Met Thr Asp Ile Ser Val Lys Asn Leu
 465 470 475 480

Ile Ser Phe Ile Ser Thr Ala Cys Leu Tyr Asn Leu Leu His Lys Lys
 485 490 495

Asp Asp Phe Gly Met Glu Leu Tyr Tyr Leu Thr Leu His Cys Leu Thr
 500 505 510

Phe Thr Glu Thr Arg Lys Leu Asn Glu Tyr Lys Val Ile Asp Arg Tyr
 515 520 525

Lys Ile Gly Glu His Lys Glu Ile Ser Leu Cys Lys Asn Leu Phe Asn
 530 535 540

Ser Ile Tyr Lys Asn Lys Ser Met Glu Asp Glu Tyr Met Asp Tyr Asn
 545 550 555 560

Thr Phe Ile Asp Leu Thr Asn Ile Asn Gly Gly Tyr
 565 570

<210> 23

<211> 50000

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 23

atTTTTTTTaa aatgaaaaaa aaaaatatca taactactaa ctatggattt acctatagaa 60

attttagaaa ttatatTTaa ttatacagat acatacataa aattataatt tatatatTTa	120
aaatatTTtag aatttattga aaattagtaa aattagattg ttctaaaaca tatattgatt	180
ctctaaaagg aatacattat cttactaatt tacaaaaatt aattctTTta aagaaatatg	240
ttgccttaat aatattaaaa aaataaattg ttcatataca atcattgatt ctctaaaagg	300
aataagtctt aataatttag aagaattata ttgttataat ataaaaattt attctTTtaa	360
tataataata aaaaatctgc ttattaaaaa tattaaatgg ttataaatac ataaattaat	420
tattttatat aaattattgt taaacattta tattaatatt ctaatattaa aaattgaaaa	480
aaaaaataat tatgttaaaa tggagttacc tgtagaaatg ttagaaatta tatttaatta	540
tttagataat gatactaaat tacaatttat agattcaaaa tgtattatat caaaacttat	600
atataaatta aaatataatt cttgtTTtaa agaaaataaag aattttatta atttaaaaga	660
attaatatat aataattatt atataaaatc tttagaaggt attgaaaatt ttactaaatt	720
aataaaatta tattgttaca atacaagaat cgattctTTa aaaggaatag aaaatctcat	780
taaattaaaa gaattatatt gttttaatac aaatatTAat tcttttagtat atttaaaaaa	840
tcttattaat ttaacagaat tatattgttt tgaaacaaat atttattctt taaaaggaat	900
agaaaatctc attaatTTaa aagaatttga ttgttcttat acactaatag attctTTtaa	960
agagataaaa aatcttatta atttacaaaa attaaattgc tcacatacaa ttattttattc	1020
tctcgaagga atagaaaatc tcattaattt agaaaaacta gattgttctt atacaagtat	1080
taattctTTa aaagaaataa aaaatcttat taatttaaaa aaattagaat gttatgaaac	1140
aaatatTTtat tctcttaaag agttacaaaa tctaattaat ttaaaaaaat tagattgttc	1200
ttatacaaaa attaatctt taaaagaatt acaaaatctt attaatTTaa aaaaattaga	1260
ttttcataat acaaataattt attctTTtaa aggaatagaa aatcttatta atatagaaaa	1320
attaaattgt tcaaatacaa atattgattc tttaaaatat ttagaaaatc taaccaattt	1380
aaaaaattta atttgttatg gtataaatat cgattttatc gaaatattaa aaaatttaat	1440
taatttagaa gaattagatt gttctgaaac aaaaatagtt tctttaaaag gaatagaaaa	1500
tcttattaat ttaaaagaat tagattgttc ttatacaaaa attaatctt taaaaggaat	1560
agaaaatctt attaatTTaa aaaaattaga ttgttcttat acaaaaattg attctTTtaa	1620
acaaacaaaa aatcttatta atttagaaca aatacattgt tatgttacag aacttgattc	1680
tctaaaagga atagaaaatc ttattaattt aaaaaaatta ttttgtcata atacaaaaat	1740
taattctTTa aaaggtatag aaaatcttat taatttagaa atatttatatt gtaataatac	1800

aaatattatt	tctttagaag	gaataaaaaa	tcttattaaa	ttagaagaat	tatattat	1860
taatacaaat	attattttatt	aataagttta	ttattttatt	atagtatata	cattaatatt	1920
atTTTTta	aataaataat	gccttctgta	caagatattg	ataattctat	tgTTaataaa	1980
atacaaaata	ctaatagagat	tttagaaaaa	attcttaata	ttttaactga	attaaaaaca	2040
gaaattaata	gaaaaaatga	tgatgaatat	tctgatttat	atgattcaga	ataattaata	2100
agaatcatat	tctatacaac	aatcacaca	ccatgcttca	aagatagaaa	atccacaata	2160
ttcacattca	taaatacaaa	cacaatttat	atcttcatat	ccacattctt	cacaaatatt	2220
catgttaa	atTTTTtatt	tatatattta	TTTTtcaata	tattttataat	aaatgaatgc	2280
taacgaagat	atgttaa	aaatatatat	taaattagat	aattattctt	tagtttatga	2340
taaagattta	attaacggaa	tagcaaatga	taaaataaat	aaagaatcta	ataattataa	2400
tttattaaaa	tctatggaag	attgttaa	tttaatagaa	atgtcatata	attattttat	2460
aaaggatagt	ttattagaat	taattaaaaa	attattaaac	gaaaataact	ttttaaaata	2520
ttatattcaa	caaaacaaaa	attaataact	tattttttct	aaaatacttt	tacaatctgt	2580
attataataa	tctttaatcc	aaatatattt	attattttgt	tcagtacaat	atataatata	2640
attatcttct	tcaaaacaac	acatagaatt	agataattta	ttacacatta	aaggattata	2700
atgtattctt	ggaattaaaa	tattttttatt	acatctatga	caataattac	cagtaatatt	2760
tttataactca	gattgtgtta	tgcaagtatt	attatatcta	acctcgttat	tattacacga	2820
tttcataatt	aaattattat	ttatacaatc	gtaatatata	tcacagaaat	acttactttg	2880
tttcggctca	caacaaataa	taaatgaagg	tattaataat	attaaccaa	acataactgt	2940
tatattatat	ttttatttaa	tatttcaatt	ttaagtacaa	tttcttatat	tattttttaa	3000
catatatatt	ctttcttcgt	ctatttcatt	tttatcatta	taatattcta	tatatggaaa	3060
tgtataagaa	tttaatatata	aatcatgttt	ataaataaat	atatgactta	acatatgata	3120
catttcatac	tttaattctac	ttaaaatttt	tgTTTTtaag	tttaattatta	ttttattatt	3180
ttttttatac	ataaagccga	aattattatt	attataatta	caatatatgt	ctatgttata	3240
atTTTTttca	ctattataaa	acataatatt	ataattttca	tacattttta	aactattttg	3300
tatttctctt	gatctgatat	tatcacatt	atttaattcta	taataaacat	taactatatt	3360
atcgtaatca	ttacacattt	catcaattat	catcattttc	atattatctt	ttactccaca	3420
tctatcataa	tctataatat	ctgttatatt	catattatat	aaagaagtta	ttctacttct	3480

tgctatttca aatatttttt gttcttctga atttttattt atatatttat tatagtatct	3540
tataatggca tttttaaaatt catcatcata cataacattc atattatttag aatatatatt	3600
tttaatatata tttatagttt tactatcatt attatagtta ctttcttttt ttgcaaaaat	3660
tatataacaa attaataata taattattat taataaaaatt aaaattattg atatgtatat	3720
atatttttta taatcatttt gaaatgttga taatctatta tttattaaat tacgttctac	3780
gtccatgatt attatattat aaattttatt tatttttcaa aataatatat aataatatga	3840
aaaaaacat atttataaaa ataaatcatt atggatttta taaaattaca agatatagca	3900
attagaagta taactgattt aaatatttta cctatagggt taagaaaaaa aataaataaa	3960
aatgtgtgtt ttaattgcaa atgtatgttt ttaataata atcaataat ttgtaattat	4020
tgtaaattat tatgttctgg atgtaataaa ttatataata atttatcgat taaaaaattt	4080
tctacaaaat atggttatag atatgaaaat aaaaaattta atatattatt atgtgatata	4140
tgtaaaaaaa atacagaaat atgtattgag tgcataaat tattatttaa ttataataat	4200
attgattatg tagaattaag aaatatagat agtattcaag ataaagtcgg agtatgtaaa	4260
ttttgtttta ttaatatatt atgtgatgaa tgtaatagat atttaacaac taattatata	4320
aattcatata ataaaaataa ttatacgtta ttagatatt ttaatgacga atttaataat	4380
tataattata aaatatgtat tagagagtat atataaaagt tatttattct tatttttatt	4440
ataaaaaattt ttatatcgat caataatatt gtaatattcg ttattagata ttaattttgt	4500
tatacatattt cctgttaaaa tatcaaatgt tacaatagtt tttttgttat cttcttttat	4560
taataaagcc atattgtgta tattaatttt aacatattat ttcaataaaa atgttttata	4620
catttgtttt aaataatctt tagaatttgt aatatttggt gattttatag tagattcatc	4680
tagatttata gaatctgtag tatctgttga ttttatagta gaatcagttg gatttattaa	4740
atctatagaa tctgtagtat ctgttgattt tatagtagaa tcagttgatt taatagaatc	4800
tgtagtattt gatactattt cacttaaattc tgttgatttt gtagtagaat cagttgattt	4860
aatagaatcc atagaatctg tagtatttga tactatttca cttaaattctg ttgattttat	4920
agtagaatca gttgatttaa tagaatctat agaattctgta gtatctgttg attttatagt	4980
agaatcagtt ggatttatta aatctataga atctgtaata tctgttgatt ttatagtaga	5040
atcagttgga tttattaaat ctatagaatc cgtagtattt gatactattt cacttaaattc	5100
tgttgatttt atagtagaat cagttggatt tattaaatct atagaatccg tagtatctgt	5160
tgattttata gtagaatcag ttgatttaat agaattctata gaatctgtaa tatctgttga	5220

ttttatagta	gaatcagttg	atttaataga	atccgtagta	tttgatacta	tttcacttaa	5280
atctggtgat	tttatagtag	aatcagttgg	atttattaaa	tctatagaat	ccgtagtatt	5340
tgatactatt	tcactaaaat	ctggtggatt	ttaatagtag	aatcaagttg	atttaataga	5400
atctggtaag	tatttgaata	gtatttcagt	taaatctggt	gatattatag	tagaatcagt	5460
tgatttaata	gaatccgtag	tatttgatac	tatttcactt	aaatctggtg	atttaatagt	5520
agaatcagtt	gatttaatag	aatccgtagt	atttgatact	atttcactta	tatctggtga	5580
ttttatagta	gaatcagttg	atttaataga	atccatagaa	tatgtagtat	ttgatagtat	5640
ttctcttaaa	tctggtgatt	ttatagtaga	atcagttgat	ttaatagaat	ccgtagtatt	5700
tgatactatt	tcacttaaam	ctggtgattt	tatagtagaa	tcagttgatt	taatagaatc	5760
tatagaatct	gtagtatttg	atactatttc	acttaaactc	gttgatttta	tagtagaatc	5820
agttgattta	atagaatccg	tagtatttga	tagtatttca	cttaaactcg	ttgattttat	5880
agtagaatca	gttgatttaa	tagaatccgt	agtatttgat	actatttcac	ttaaactcgt	5940
tgattttata	gtagaatcag	ttgatttaat	agaatccgta	gtatttgata	ctatttcact	6000
taaatctggt	gattttatag	tagaatcagt	tgatttaata	gaatccatag	aatctgtagt	6060
atttgatagt	atttcactta	aatctggtga	ttttatagta	gaatcagttg	atttaataga	6120
atccgtagta	tttgatagta	tttcacttaa	atctggtgat	tttatagtag	aatcagttga	6180
tttaatagaa	tccgtagtat	ttgatactat	ttcacttaaa	tctggtgatt	ttatagtaga	6240
atcagttgat	ttaatagaat	ccgtagtatt	tgatactatt	tcacttaaam	ctggtgattt	6300
tatagtagaa	tcagttgatt	taatagaatc	catagaatct	gtagtatttg	atagtatttc	6360
acttaaactc	gttgatttta	tagtagaatc	agttgattta	atagaatccg	tagtatttga	6420
tactatttca	cttaaactcg	ttgattttat	agtagaatca	gttgatttaa	tagaatccat	6480
agaatctgta	gtatttgata	gtatttcact	taaatctggt	gattttatag	tagaatcagt	6540
tgatttaata	gaatccgtag	tatttgatag	tatttcactt	aaatctggtg	attttatagt	6600
agaatcagtt	gatttaatag	aatccgtagt	atttgatact	atttcactta	aatctggtga	6660
ttttatagta	gaatcagttg	atttaataaa	atccgtaata	tctggtgatt	ttatagtaga	6720
ttcagtaaat	tctattattt	cagataaatc	atttttcttt	aaatattcat	taatattatc	6780
aatatttttt	tcatattttt	ttaatatttt	atatatttcg	gttatatttc	tttcaatatc	6840
atattcatca	ttattattag	ttatattatg	atatattatt	atagttgtaa	aaacaaataa	6900

tattccaaaa	agtatttttac	aaattttttt	gatattcatg	attgttttatt	ttattaattt	6960
attattaaaa	attcaatttt	tgaaaatata	tcattacaat	taatataatt	atacaagatg	7020
ttgagaatag	aattaaaaaa	aaattattct	cataataatt	atgcattttg	taaattatgt	7080
aatcttatga	tgatgaatgt	aagaggtcta	aaaatacatt	atactagagt	tcataatact	7140
aaattattat	tagtagataa	ttatcctaca	tttgagataa	tattaactaa	taaacaagaa	7200
gaatattgga	gaccatggat	ataataatgt	ctatatattat	aaaataaatg	aataaaaatac	7260
aagttatagg	ttttaataat	ttaacactac	ttaatataca	aattttatct	attaataaaa	7320
aaacttatgc	aaaaattaca	actatagaaa	ataatagacc	tcattgggtg	tttgatttat	7380
atttttatat	aaaaataaca	cgttttttta	gaacaatata	cgaatatagt	atatatggta	7440
ctgttccaat	agaaaataac	gaaagatata	taagaatata	taataatact	acattttaat	7500
tatttcatgc	tgaaccactt	gggagattat	taatttatga	taaaaatggt	gaattattat	7560
ttcctattaa	cgttatatat	atttgggaatt	tagattcttt	aaaaatagtt	gattatgcta	7620
tactaacatt	aaataatata	tataatttat	ttttgtattt	tgttatattt	ataatgttta	7680
taatatatta	tttatatatt	tatataaata	ataggaaaga	tgttttgaaa	aaaaataata	7740
tacattaaga	tctatttctt	ggtatttat	aatatataca	atatgtcagt	taataatatt	7800
aataattatg	ataataaaat	atgtatcgat	tggtataata	aatataaaaa	tgaaataaat	7860
aaaaaaaaaa	tacaactacc	tgatttatta	attttattta	taggatattt	atttgtatta	7920
ttatcaatat	ttttaacatt	atatattata	ataactttgt	gtatagaaaa	ttttaaaata	7980
caatatataa	tattattaat	atgttatatt	ttaattatga	taggtatata	ttcaatttat	8040
gctgttaaaa	ttgataaaat	tgaaaatgca	acaatatctt	tcttaataga	tgtttgtaaa	8100
aaacatagac	atagacgtag	tagtttacct	acttatgaat	cattatggcc	tgatactggt	8160
taataaaaaat	aattttattat	cttacgcttt	catatatatg	aaatattttt	ttaatgtaaa	8220
taaatcttaa	taataatatt	attaatatta	atattattaa	tattatgata	ctaggtatta	8280
aatattttga	cattagtcct	actttattaa	aatctctgat	attatcatca	cattcataaa	8340
ttatattaga	tgaatttatt	actgtatcaa	agttttaaac	atcccaaaat	atatattcgt	8400
tatcattaat	tttacaata	taatcatcat	atttacattt	tttattataa	caagacatag	8460
atacatTTTT	atTTTTagaa	tcataaaaata	tattttattct	gcgtataata	tttatttcat	8520
atttcgtatt	tatattattg	tttccgtata	atTTTTtata	tttattagtt	atatatatta	8580
ttttatctat	gtgtatatca	tatccatcta	tagtaaatatt	attattattt	actatatgat	8640

```

tttgtat tttt tttt aaacaataat catattcatt acatataatt tgactaaaaa 8700
tagttataaa tccatttatt attatatact tgtccatgat tatatatataa tataaatatg 8760
ttttttcaaa aaaattatta tttttttata acatagatta ataaaaatcc gtattttttta 8820
tataat tttat tatatttggt aatatat taaacacatc attgaaatta tcatctat ttt 8880
tatcagattt tatatgttta aattcatctt tagtataata aaataaaata tattcggttat 8940
catatttatg tatattttca tacatttggtg ttcc ttttttc atctccatac atttttttat 9000
agaaat tttat attttttata taacgattag gaggacacca gtcac ttttt tctattatat 9060
aatttcggt ttttagtga aaatcaacat cataaccatt ttaaattttta cgtttat tttc 9120
ttaaataata taaatcttct tcgtcgataa gttaataca ttttatgaca atatctaattg 9180
ttatattatc agaattttct tttattttta taatttcac tatatat tca tctacgtaag 9240
aagacatagt gttttat ttttatatta tttcaaaaac aaatttttat gacataacaa 9300
tataat tttgt tttatatata tgcatttggtc tttaaaagat tttgtaatcc tcagaaagaa 9360
ttaaattttg tattttgtat taaaataaac atccacgaga ctcatctcaa gaataatatt 9420
ctatcattaa ttgtaaaata taattttcat caaaattttta tatatccatt gaatcattca 9480
tacatttatt aattgtaaat ttatattatc tatttgatta aaatttgatt ttatatattc 9540
taaacgggt ttatttcaga acataaatat tcggttagata taaaattatt ataatttatt 9600
tttaaaactt ctctactat ttcttaaaat tcagcacatt cattaaattt tttttattat 9660
taataaaact atatttggt gaatcgaatt taatatagat atttcactat ttttatcttc 9720
ggatcatat atctttaaca gttaatatat attttatttt tgaaaatatt aatttttttt 9780
gaaaaataat atattattat taactaagta tattattata caaatatgga tttttcaata 9840
ttaaaaacaa taaatttctg gatagaaatt ttcattttca taatatctgt atctggatca 9900
ataatgattt ctctagcaaa ttttaatggt ttatgggttat ggataatctc taatatatca 9960
tctattgcat attttacata taaaaaacaa tatccgttat gtttacaaca atgtgtat ttt 10020
ttaacaacaa caatattagg tatttattat aattgggata aattataaac acaatagata 10080
ataattcctt ttacagtatt atataatata atattaattt ttattaatat atttaatttg 10140
tgaatatata tttttataat attaaaatac ttttttatta tattattata atataaatat 10200
ttatcgatta tgtttaatat atataaaaaga ttaacattta acgaaaaaat atatttataa 10260
aaaaataaat aatggaacca atatttaaat atatgtttgt tacagaaaat gcttttgaac 10320

```

ctattagaca gacatcaaaa tctgcaggaa tggattttaa aagtgcataat gatttatattg 10380
 ttccagcaca tgataaaaaa ttaataaaaa ctgattttaat tatagaaatt cctaaaggat 10440
 gttatgcaag attagctccc agatctgatt tagctctaaa taaatttatt gatattggag 10500
 ctggagtaat tgacgaagat tatagaggaa atgtgggagt aatattatatt aatcattcta 10560
 atgaagattt tataataaat agaggagata gaatatctca attaatatgt gaaaaaattt 10620
 tatatcctaa aatgttaaaa gtcgatagtt tatcagaaac aaaaagatct gatttttggtt 10680
 ttggatctac tggttataat taagaatata attttatttt ttttttatta aaaatattat 10740
 tcaatattaa ttaaaaattg tatataataa aaatattatt gatattataa ttaataaata 10800
 cattattact gtaaataatga aaatataata acttttttgt atatatataa cattttataat 10860
 tttattaata acgtttattat tatttactgt attgttgcta taaatatatt cttttttaat 10920
 tataacatca aaagaatccg aaatattaat atttactatt atattattat tttgtatttt 10980
 tttcaactcg tgtttgcaaa catgcggatt ataagatata ctttttgtaa aattaaaaata 11040
 tttacagtaa aaatctgttt cttttatata attatataat tctaaattat tatactttat 11100
 agaaatatca cataaattat taccatttat atcaatttta ttatttaaatt taaatccatt 11160
 taataattta atatcaacat cattacccat attgatatca tataataatt tcaatatatt 11220
 ttttggtaaa tctattagag gaactgtggg tgtgttataa tcacatttat tattatttaa 11280
 aatatttttt atataatcat cttttaatat atattcattt tctatacaat aaatattatt 11340
 atcacaaata taattataaa attgtgattt tataggattt ttattttatt tattttccatc 11400
 acaatataat actgggtcac atgaatatga cgaataacta ctatcaaata atatatattt 11460
 cgaatattta tatgttttta attcattttt aaatatatat tctaataaat tataatttat 11520
 ccattgataa tcataatcat ttacaattgg aaatatattg tcaatatttt taacaaaaga 11580
 tatattatta taattataaa tatatttatt gttattatat tcagttaata tatatatatt 11640
 atttttattt aatataaacg tttgttcttt ttcacataa aattctacaa ttatatattc 11700
 gttacaaaat gttttaaata tatcactata tttattaatt ttatttaaatt atttattctt 11760
 aatataatca ggatttttat gatttttata tgttttggtt ttaaaatttt tttcacaaata 11820
 ttcaatattt ttttgtctcc atatattaaa ttctatatca tgattgtggt taatccacga 11880
 gtgattatat tgatgtgtta atattttttt tataatattt ggataatgat caaataagaa 11940
 tcttggtaaa gaactacca tataatatgg attgggtgta ttgtaactctg attttaaaac 12000
 atctttaatt gtaaaattat tttttttaat atatgataga tctaattcat aacattttct 12060

```

attaccatat gcatttgctg atccttcgat gaaccaaata gggaatttca tatcatatat 12120
catatacatt aaagcatggg gtaattcgtg accaaaattt aatgggtttat tattctgcat 12180
atatgcaaat gattgtattt tattgtccat aatagttgta tatcctccat tatttggttct 12240
tatattatat attaatccat atttttcata ttgattttta ttattaaata tataataata 12300
tattttatct ttttttaa ataaaggtaa atttatatat ttgtgaaaat aaataaaatt 12360
attatacaca aaactggatt ctttttttat aaaattaatt atttctgcat ctaaactatc 12420
atatctcaat tcgattgtaa tatttgatat attgtaaatt attatatattg gtaaaacatc 12480
ctctttgttt attatattat aataattatt aaatttttgt tgttcattctt ttataatatg 12540
tgacacatat tctatataaa atatttcttt tacgactttt tctgatataa tataaccagg 12600
ataatcgata gaagttttta taatagataa tgtattattg tcaataatat ttctaaattc 12660
aacattatta ttatgttttc ttacattttt ataaaagtat aatattattt taattatata 12720
atcattcttt gtgaaccaa taggaaattt attaaataat tcttgcatatc tggatatatc 12780
tttttttata ttatcaaaat gtaaaatttt aaatcttaca taacaatcta ttatttctac 12840
tataacatta ttaaattcta ttatattttc tcttttaata attttattat gtttatttaa 12900
ataatatatt tgatatgata aaatatatga aataaattca tctttgttat aggaattata 12960
atattgcaaa ttattaaata aatttagtaa actttttaaa ttttttaa attttttatt 13020
atcataatca tatttatttt ttaataaatt tatatattta ttatatatat taacattatt 13080
acatcttggg gtattaaatt tatctataat acaatcagaa attattgtat gtaaattttc 13140
tgtttttggt aagggttgta tacataaaat aaagaataat ataaaattat tcatattgaa 13200
ttaattatta tatactatca caatagcaca atattattat attttataat aattcaaaat 13260
aattaaaaaa aaaattatgg tatataacct ataaatttta taacattaaa tttaattata 13320
tattcttctc ttccaatgta tttaaaataa tcatccaata attcgtctac aaattttgtt 13380
ttatcttctt tgtttaatac ttttaaatga ggtaatatag cttaaattaaa gtcattgta 13440
tcttttctat tattaaacgt ataatatata ttagatatat tttttattat agtaaattatt 13500
ccagaattat tagcataata ttcataatta atatcattta aataatcaaa aggagattca 13560
aaattaatat aatattggtt ccaatatggg tttttaatca attcattaat taacataaca 13620
tgagtttttt ccattaaagc accattata tatatgtgtg cgttatgatt agatattttt 13680
gctatgtttg aaaatacaat atttttattt ttaatccatg gaatgcaaaa gaaactta 13740

```

attatgtcat atttttttatt tataaatatatt gtaatattat cggtagtaat atccaatggt 13800
 ttaaattttta aattatttttt tatataatta ttttttagcat aatttatcaa atcataagat 13860
 ttatctattc ctaatactgt attatctgta atattagata aataatgtgt tatttttacca 13920
 tgaccacaac ctatatctat tattgaatca tttttattaa tattaatttt ggatataaaa 13980
 gatatagatg aatcatattg aaaatttgat atattttacat aatttggtatc ccaacaatat 14040
 gtatgtatta tacataatga aaaaataatt atattaggat ttgccattta ttttttagtat 14100
 aatattttcaa tcacaaaaat aatataagaa taaatgtttg tagtataaca ttttaattaa 14160
 caaattgtat atctaaatta aagaatataa tttgtgttac aacaatataa ttcttctaaa 14220
 ttaattagat tttttatttc atataaagaa ttaattattg tataagaaca atttaatttt 14280
 tttaaattaa tcaaattttc tattcccgtt aaagaattaa tattagtata agaacaattt 14340
 aatttttcta gattaatgag atttttttatt tctaataaag tatcaatttt tgtatcaaaa 14400
 caatataatt ctcttaaatt aattagattt tttatttctt ttaatgaatt aatttttgta 14460
 ttattacaat ctaatttttt taaattaatt agattattta ttcccgataa agagtaaata 14520
 tttgtattaa aacaacataa ttctcttaaa ttaattagat tttctattcc tatcaaagaa 14580
 tcgatatttg tattaaagca atataattct cttaaattaa taaaattttc tattcctatc 14640
 aaagaatcaa tttttgtatt aaagcaatat aattctctta aattaattag attttttatt 14700
 tcttttaatg aattaatttt agtattatga caatataatt ttcttaaatt ggtagtattt 14760
 tctatttctt ttaatgaatt aatttttagta ttataacaat ataattctct taaattaatg 14820
 atatttttta tcccgttttag agaattaatt ctactagaag aacaatttaa ttttaattaat 14880
 ttaattaatt tttctagttc tgtaaagac caaatatatg taaatgaaca atttaattct 14940
 tgtaaatcaa taatatattg tatttctttt aaagaataaa tatatgtttt agaacaatct 15000
 aattttatta atttagtaaa aatttcaata ctttctaaag attttatata ataattatta 15060
 catattaatt cttttaaatt aataaaattc tttatttggt ttaaacaatg attatattct 15120
 aatttatata taagatgtgg tataatgcat ttggaatcta taaattttta ttttgataa 15180
 ttatctaaat aattaaatat aatttctaac atttccgtag gtaagtccat gtttaataat 15240
 tatattttat atatatattt tcaatataaa aatttattga aaatatatat aaaaaataaa 15300
 aaaactataa aaatgacaga taataatata ttaccgtga ttttaattaa acatcacatc 15360
 caaagtaata ttaaattcga agatactgtt aatgaaataa agaaaattaa taataaaata 15420
 tctgatgaag aaatatgtat attatatgct caaactaagg tagatatgga atattttacat 15480

```

tttaccgaag aagataatat aaatatacaa attataaata attatatata tacagaaatt 15540
aataattatt gtattaatta tttatttagat aatgataatt ttacagtaga tcaagtattt 15600
ccgataattg tagaattata ttcataaaat aatatatcta aattaaacat ttattaatac 15660
aatcttcata attattaaaa ttattcatgt taccaccaca tccaccataa ataaatattt 15720
tacaatcttt aatattataa ttataatacc atctaatact tctatttcta catattccag 15780
gatcataatc ttcattacaa atattattat ttattaattt aaaattataa ctagatgaaa 15840
ataacataaa tagacataat aaaatgtaat aattcatggt taataatcaa tattattatt 15900
ttaatataat ttttcattca ataaaaatta ttaatctata ttattttaat aattacatta 15960
acaacatcag aatcatctat tttatatcta ttttttataa ttttatataa ataattatca 16020
tttggtaaat ttaaaaatgt tattgagtca ttgtcaaaaa ataaacaaat agtaaaaata 16080
gatttattaa tgtgtgtaaa tctaaatata atatctaata aaacgtgtat caattcatca 16140
cattctttat ataatttttt atttcttaaa attattatat ctctagataa attattaaat 16200
ttatttataa aatctaaatc attattaggt atcataattt ataatatatt tatattatta 16260
cataaaaata attattcgac tgtaattttt atattgtcat tatattcatt agagaaattt 16320
aattttataa ataaaatttt tttatcatta ttgtatataa atccacatag atcttttata 16380
atattcgatt tttttgtaat gaataattct ttatctatat atttaaagtt tttgttaaca 16440
ataatattat tatgattgta gttattaaca ttatcaatat aacatttata atcataatca 16500
tatatattat tattactatt agacataggt ggaataatta tataattaga taataattca 16560
taatcaatat taataaatat attactattt aatatttttag gattattttc atttttaatt 16620
atacataaaa taatataata cttatttata ttatttattt tgttatttaa taattctata 16680
caattattat aaatatattt tatataatca ctttttatat tatttttata taaaatattt 16740
ttatattcga gtataaaaata atctaattta taatataata tttgtatata attttcattt 16800
atattacata taatatttgt gtcaaaaatta tatacattat tatctatttt tttatcaaaa 16860
tatttgttta tttttaataa aatactattt atataattat tatgatcatt attaataata 16920
tttattttat ttatttttcc atagaatggg atcataaata tattattata tatattaaca 16980
tcattactta atatttttagt tatatatgtg cattttcttt tattattatc tgtttttata 17040
tcaataattt ttgtattttt taataaaaata tcataatcat taaaacacat tattaatatt 17100
atttaattat ttttcaataa aatttaaaga tatatcataa ttatatataa ttttatcaaa 17160

```

attatcatta ataatttttaa ttaattcaat attttgtttt ttattacagt taataatcat 17220
 atttatataa tcattcataa ttatattatt ttatttgaca taatcatcat aatcagatat 17280
 acaatctatg agtttatcac aattatacac aaataaaaagt tttaattcat atataatatt 17340
 aatatttttt tttaatatcc ttattttata ttcttagaa tatatattat tctttatttt 17400
 atttatgata tatttagaat attttataaa atatttacta tatgttatat tgtcttttat 17460
 atacatatat tgtttattgt tatatttata ttgcaatgta gacatttcca atatattttt 17520
 tatatattta tccattttta tatattaatt taaaatttca aaaacattta tttgtctaata 17580
 gttattaata attttgata ttatttatat aacaaatata aatattctga agatataaag 17640
 tgcattgaat ttgcgttgta atctaatttt ttatattttt tttaatttc tatatctgga 17700
 taaaattttt ttataaaata tttaatgaaa atctttatct gaatattttt atttttaata 17760
 atatagtcac attcttcgta taatttaagt agaattattat ttatatattt ttattttgta 17820
 ttataattaa tttttatatt atctaaaata taatttatta aacatatatt gtcaattata 17880
 tttaaattat catatttttt taaattatta atcatcaaaa cataaaatat ataatacatt 17940
 tctataaaat ctccaacagt tatagataaa gtatctttac gctttatttt ttcattctatt 18000
 ttatcatata ctgttttatt aataaattta ttttttcat ataacataat atcatcataa 18060
 atgttttgat ttataatata atcatatttt tttttattat ttattatttt taataatatt 18120
 gaataacata ttatatattt attattagat aatgatatta atctaatacat tattataaat 18180
 ttattttaat atattatata ttttttcatg atataaaaat aatatctatt tattaataaa 18240
 tttctatttc tacattagtg tttttatata ttttatataa tatatctttc atattattta 18300
 atgtttttat tttttttaaa tttttatatt ttttccaatc taaatttata tttttatcat 18360
 gtatgtattc tataatctct attgtgtcag gcaacattat attaaataaa gtatcattgc 18420
 aatatattat tttaaaatgt ttatttttta ttttacttag atttattgta attatatcat 18480
 tacaaataat actattaatt tcaaaatatt cttaaattata taaattattt aaaaaattac 18540
 ttttcttaat aatttctaca ttatttatta ttatttgtct aataactaatt ggtaaaatac 18600
 attcatttaa attataaata ttattgaaac ccaatgataa agtatctaata tttttatatt 18660
 tttctaaaca attaaaatta aaattataag tagacttaca agatataaat ttattatttt 18720
 caattgattt acacgcattt aaaatattaa tatatgaatt tacaattttt atttttttta 18780
 atcttattaa ttgtgttaaa aaataataat tattaatatt aaaattattt gatattttta 18840
 aacattctaa tgatattggt aaatcaatta taatattttt ttttgagtta ttaaaattta 18900

```

ttttaatttt ttttaattta gtatgacata ataaaatata tgtatatttatt tcacaatttt 18960
gtatatctaa atattgtaaa ttataatatt ttgatatgtc aatatctgat aatttgacat 19020
ctatagtata atcgaattca tattcaatta tatttgataa atttttttaa taattataat 19080
tttctttata tgattgataa tcacataaat gagttatact ttttggaat tttatcaaat 19140
gtatattatt ttttttaaca ttgaaagata tatctaattt ttttaaatta attaatTTTT 19200
ctataaattt ataatttttt atttgtattg attccatatt taactcaact atactaatag 19260
gaaaaacatt attaaagtta ccaaatttat ttttagatat tattaatttt tttaaattta 19320
ctaaattatt aataaaatta tagtcattta tattacatga ttcacaattt aaaaattcta 19380
tagaatgtgg tagtataata ttacttatat tgctattttt gttataagat atatctaaat 19440
atgttatatt ttttaatttt gttataaaat ttaaattaat aatattttaa tttgaaatat 19500
ataaactttt aatattttct ggaatattat ttaaaatatt attatcataa tatattatat 19560
gcaattcttc taaattaact aattttttta atatattaat attaataaca ttatctctgt 19620
ttattattat tttttttaa ttataatatt ttaaaatatt tattaataatt atatacagaat 19680
ttagtaaata cattttgata attttatttt tttttcattg attaatTTTT ttttgaaaaa 19740
atatatcaaa taataaaaaa aaatgtcgat agaattaata attggctcta tgttttctgg 19800
caaaacaaca gaattgatgc gaaaaattaa tagatatatt ttatctaata aaaaatgtgt 19860
aattataact cataatatag ataatagatt tataaataaa aatataataa atcatgacgg 19920
aaatatatta aataaagaat atttatacat taaaacaaat aatttaatta atgaaatcaa 19980
tatcgtagat aattatgata ttattggcat agatgagtgt caattttttg aagaaaatga 20040
tttagaacia ttttgtgata aaatggctaa taataaaaaa aaagttattg ttgctggatt 20100
aaattgtgac tttacagaa atatatttaa ttctatatca aaattaattc ctaaagtaga 20160
aaaaataaaa aaattacaag ctatatgtca attttgttat aaagatgctt cttttacaat 20220
taaaaaacat aataaaaatc aaataattga aataggtgga caagatttat atgttctgt 20280
gtgtagatta tggtataata attcatatta atatttttat tcataaatgc aaaataatga 20340
taattattat tctgatattg aagggtgcaa atctgatatt tcgttagtag atagaaaaaa 20400
aaaaataggt aaaatgataa ataatttgt taatatcaat aacgaattaa ataaacaatt 20460
atcaaataat aataaaatgt taaaaaattt attagattct ttaaaaaaat atgattgttg 20520
ttataaata ttttaactga attctccatt gaggatttgg taaattagta ttacttttaa 20580

```

aagttaaaat ttctattgta ttatatataa aatcaggtag tttattatTTt tcattttttaa 20640
aaatataatc gtaatcataa ggTTTTtgga tgttatcatt tttataatTTt tcaatataca 20700
aacttgctga aaatattatt ttattatcta atgttattat ttttgctaca ccacttaatt 20760
ttatattcca attaggattt ttaataagta aatcatttat ttgttcacca aataattcaa 20820
gtttattatt atccataata tataatatat aatatataat atataatata taatatatct 20880
tataataggt gttaaagtgt tttatttatt agtatttttt cataagagtt tataaaattc 20940
agaaagttta tttttatata tattattatc gttaaattta tacttcttgt taataaacc 21000
atatattttt ccaaattttt tataaatggg tacattatta tctatattat tcatatgaat 21060
taaatttttt taatattttg taatataata taaaacatta tcttggttaa tatcaatgtt 21120
atTTataaaa tttaatacag attcttctgt aatattatat aaaatatttt tatgtgttag 21180
ttttgttaaa ttgtatgatt ttttaacttt atatcttata tttttatata taattatata 21240
tccttctact ttactttcat cattgtgatt gaatacaata gattttatatt tgatattttc 21300
tataaagtca ttgtatttaa tcgtttcata attaataaca ttaaaaccag cagcatttaa 21360
gactatttga catatatcaa aatcaataaa atgaatttta tttttattat cgcaattttt 21420
aatttcataa gcataatatt caattctatt atcattaaaa taattaacgt ttttaattat 21480
taatttatta ataccttctg cattttgata agaaccaatt aattctccat atataataaa 21540
ttttttttaa ttaagaaatt tattttattt attagtacaa tcgattaatt tatctttaat 21600
tcgataataa ttcatgaaat ttttattttc ataatatgta tatctcgaac caaatggtat 21660
aataccatta ttatatataa ttctaaaatt acatccgtct aatttttctt gcacaaatat 21720
ttcttttcca tataataaag aatttttaca atggtttaat tgttttatag aaggataaat 21780
aattttatta atttcatcat cgttatTTa tatttctgga atatataatg gtttgttaca 21840
aattagatac atcataataa tatttgatat atttttaatt ttttttggtt tttcgagttt 21900
atTTacattt tccaataata cttttctata gtcttgaata atacttctt gttcttcagt 21960
agctaattca ttatttaatc ttttcatcat taaaatatta tataattcga ttttatcttc 22020
ttctaataat tctggttaatt tattaataac gggaaaatca ttatttttta accaataatt 22080
tacatatgac aaattatata ataatgctaa taaatttttt ggttctctat cagatgtatt 22140
attaatttga tatttagtca tagtttttaa tataagagat atataatatt ttgttatata 22200
tctaacaag taaaaaatca tatcattttt tatattttct ttagttccgt atatacctaa 22260
gaagtaataa tttcctttta ttattcccat aaaagcttta gatatatcta caaatggtat 22320

atcgttatta ttttttttat tagaatgtct gtttattaat cttttattat cttcgatcca 22380
 ttcttctgca tatatatctg cagaagatth agttataata atataatcat aatcactact 22440
 aataatatca tatccttttg ctttacttcc gacatctaata ataatataaa ccatttttga 22500
 aagtagtttt aaatattata attttttttc aacaatataa tagttttatta ataaatgaat 22560
 ataaataaat gtatagaatt gggatcttat tttcataaat ttctaagaca acaattacca 22620
 cattatataa taccatatac taatagtggt ttttaattttt ctttttgtaa tattgataac 22680
 gataattata tgtgctgtgt tagatataga acagatatta aagttttatt tggtaaaaat 22740
 ataatacccg gtgattataa aaatggcaaa aatttttggtt ggggaagatg gaatgatcct 22800
 agatttggtg atgctacttg tatatttata tgtaagtggg ataataataa attaattttt 22860
 gatgaaaata taaaacctac atttatatgg tctcaacctata tatgcaaacc aaaaaaatgt 22920
 atgttattaa gcacaccatt attgtcagat tttagaatat ttaaaaaataa aaataaaata 22980
 tttatgatag atggtaatgt ttctataatt agagagataa acatagataa aaaaaataat 23040
 aaaatcacta taaattctgg atttatattta aattatatat gcggtgatac cacagattat 23100
 tgttatgata aaaattgggtc atatgttaaa cataataata ataacgaatt agtatttttg 23160
 aattggataa aagatagtta tgtattagag actatagtta ctatatattga taaatgtgaa 23220
 actaaatgtg atactaataa ggtaataaaa ttagggtggca atcataattat tgatggacta 23280
 ggtgatttaa aatcaccaat gttttctttt ggaactccgt gtataaaaat taataataat 23340
 acttatattg gcgctgggtc tgctaaaata atgcttactg aaaaatatga accaaaatct 23400
 aatattttta attttagaaa aaaaatatat gacaattttt gtaatgacaa aacatacatt 23460
 caacacaata gttatatata ttgtatgtat ttttttaaata atgttattgg taaaaataaa 23520
 aaattatata tatctaattg ttatttacct ataattaaat caacaaaata tttttttct 23580
 atatattttc ctatgtctat aactaaaaat aattctgata taattgtaac aggaggatac 23640
 ggagattatt attctattgc ggtaactttt aattataaag atgttataaa aatcactaat 23700
 cacgatattg aaaattttta tattaatgat tataattacg aattaatata ttgttaagga 23760
 taatacacgc gagttaagtt ttttatttta ttctgacata ccggacattt atccatcgat 23820
 atagcacatt ttccacaaca aaatatatga ccacaaggca caaaacaaat aactcgttct 23880
 tcgatataac aaattttaca taattttata tcattttttt catcgtttga tatatttatt 23940
 tcaggatat tttctttttt cgacgatttg ataaacgtgg attgtgtcat tactttttga 24000

ataaaatctt tgccttttac aagtttaaca taatcacatt tatcaaacca tcttgcggtg 24060
 tgtatccaag gatcatcgtc tgtttcccat ttattttaaac caccatcaca ataaaagcat 24120
 ttaactttat cactttttcc agtataaaag aatccagctt ctgctagttt ttctgtagaa 24180
 ataggcattg aaataggcca ctctttatat gttttaagtc tttcaacaat atttgataga 24240
 ttaggatgaa ctgctccttt ttgtgtaatg ttagatatat ttttattatt gccacactca 24300
 tctattccat cattagattt taaaaaacta caatttggag aaaatttttt atgatcaatt 24360
 tctggtttat cgcttcaac ccattttatt atttgactc cacaatacac acatttaact 24420
 gtatcattct cacctatata ataaaatcca ttactagcaa atgattcagg agttataaaa 24480
 tttatgggcc aattttcaaa tgtttgtaat ctttcagatt cattatacaa gttaatgtca 24540
 tccatcatat ttaatataaa atataatata tgtatgttat ttttttatat tatttttcat 24600
 aatattaatc acatactttt tcgtttatcg tcataattat aacgatatat attattatta 24660
 taataatcat tataaatttt atatttagaa ggtatgttta tttttatttc tgatattttc 24720
 gacacattgt tgtcaatttt aacttctaaa tttaaataat ctatatattt taaattataa 24780
 ttatctattt tattatataa aatatcatct aaaatgttat aatatgacaa ataattatat 24840
 ttatacgtat atttatcttt ttgtgattgt aaaaaattta accatttatc atgagcataa 24900
 tcagaaatta tattaaaatt ataaatatat ttatttctca tttctatttc tacttctata 24960
 agatcaatta aactaacact aggataacta tgttgattat cccaataatg atataattta 25020
 caatattctt tcataatatt ataatgtgca ttacaatatt tatatttagt tatgttatta 25080
 cactgtttat tatatactat agcagagcat ttttttatat ttttaaattt taaattatcg 25140
 ataaaattat taaatttaaa tttatatattt gaaacaaaat caaacatttt atttataatt 25200
 tataaaatat ttcaaaaact ataaatataa aatattttta cttttctaatt attttttgaa 25260
 aaataattat taatattaac tataattata acataatgga gaatgttacg tttaaaaaaa 25320
 ttgttggtta aaccagacaa gtatttttta gaagcgatgg tttaaaaaat aattgttttag 25380
 ctatatcaat aataattaat gaagtttgta aaaaatataa tattaagtgt aatataattc 25440
 gtaaatatat atctgaagat aatattaaat tttataatca ttttgtagta actaatggaa 25500
 aagaagagta tgatacaaca ttaattccaa gtaattttat ttatgataaa ataccatata 25560
 taaataattt atctgaaaaa gaccaagaat atgaatctaa attatatgag gaatattggt 25620
 tatattgtga tggaaaatta gacaatttta ttaacaaaat aaaatataaa tacatagata 25680
 aaatattttt attacttaat taataagaaa cacttatcgg aaatattatt cagattaaaa 25740

```

aatattcgtg gttaatttta taaaaataat cttaataaca ataacgattt aactaaaata 25800
ttactgaact gtataattaa tataaattat aaattagttt aaaatatatc attttattta 25860
ataaacaaga ataattattat tattgaattt ttataaatat aattaaaaat tatataaaat 25920
gtctttaatt gatgtgtgtt atgaacacat taaagactca tattattatg gtctcttttg 25980
tgattttaaa ttagttatag ataaaacaac aggttgtttt aatgctacta agttatgtaa 26040
tttaggtggt aaaaaattta aacaatggaa acgtttagaa aaatcacaag aattaataga 26100
ttatattaaa aataaccgag gtggggatcc ccaccccggc ttttatgaaa caaaaggaga 26160
taataaagat gaaaatgtta aaaaaataac tggttgttat gtacccaaag aagtcatttt 26220
agatatatcg tcttgatat ctgtagaatt ttatttaaaa tgtaatgaca taattataaa 26280
ttattataat actgaattta aatctttgtc tgaaaaagaa attattaata aaattaaaga 26340
aatagaaaat aaatatatta atattgtaga agataaagaa ttagaaatta atgatttaaa 26400
taaaaaatta agtgatatta taaatcaaaa taataagata ttagaatcta ataaaaactt 26460
agaaaatcaa aataaaaaat tacttaagtt agcagagaaa caaaacataa aattagatga 26520
aataggagat gaattagatg aaacaaattt taaattagat acattaactc aaacagttga 26580
agaaaatata ttacctgata gaaatatatc acctaaagac gttaatctaa aacataattt 26640
agtaatttat aaaaataata acgaaattaa gataattaga gctcaaaata aatatataaa 26700
taaaattaaa attcttgatg aaaatataat tataaaagag tacgtaccga atcctataga 26760
ttttattaat cgtatgaagt tatattgtgt tgatataaat aaaaaataa aattaagtct 26820
tagaaagaat aataaaaaata tatcatatga tgaatttatt gatatatata atgctgataa 26880
aaaattagaa ataaaatata attatattat attaaacaat agtaaaatag atgaagttat 26940
attattattt aataaattaa aagaagaaca atataattat taataacata aattatgtat 27000
aataatgaat attttactaa tcgtgttaaa attcataaaa aaatagatac aattaataaa 27060
aatgttttat atttagcata tagagatctc agagtttatg ataattggtc atttttatat 27120
tctcaaaata tagcatattt aaataattct tctatgtatg tattatattt aataaataaa 27180
aataataata taaatataag acaatataaa tttttatatg aaggattgcc agaattcgaa 27240
tcacaatgca aaaaatgtaa tgtttctttt catttattat cttataataa taacataata 27300
tcaaatttta taaataaata taaaatagga catgttataa tagaacaat gccgctttta 27360
ttccacaaaa aatattattt agatccatta aaaaaattaa atgtcaatgt atatattgta 27420

```

gattctcata atattataacc agtatgggta acttcagata aacaggaata taacgcaaga 27480
acaataagga ttaaaataaa taaattaaaa gatcaatatt taatcgaatt tcctaaagtt 27540
aaaattagta atatacaacc tattttttgta gaaaataatt ttgatataat tcccaattat 27600
gataaaaaat taataaatat ttatgaaata gtgggaggggt atactaatgg aattaataga 27660
atgaataatt tttttaaaaa taaaataaac acatacaaag ataaaaaaaa taatccaaat 27720
tatgaaaata ccagtatttt atcaccatgg ctacattgtg gtatgatttc agctcaaaga 27780
tgtgttttgg aagcaaataa acttaaaaaa attaaagatt ataatataga atcaatagat 27840
tcgttttatag aggaaatttt tataagaaaa gaattatctg ataatttttg ttattataat 27900
aataattata aatcttttgc atcttgtcca aattgggcaa tattaacttt agaaatacat 27960
aaaactgata aaagaaataa aatatttagt ttacgagaat tagagtatgg caaacagat 28020
aataaacttt ggaattattg tcaatattat ttattaaaat ttggttatct taatggatat 28080
atgagaatgt tttgggcaaa aaaattaatt gaatggacta attctcctca agatgccatc 28140
gataaaacaa tttatcttaa tgataaatat ttttctgatg gatatgatcc tatgggatat 28200
gttaatatat tatgggtcaat aggaggattg catgacagag cattcaaaga aagagaaatg 28260
tatggaaaaa taagatttat gtcccaacca ttaatgtata aaaaattaaa tgtaaattgat 28320
ttttataata atttcgataa tgtaattaag tcttaattat tgtttttata taatattggt 28380
tatataaatt agatttgcta cataaatatt tatttcattt aataaaatat ttatattctt 28440
tgatgatata tcataacaaa ttttaataaa tttttcaatt tttattcttc ttattagtgc 28500
attcattaaa agtttgtatt ttctttctaa aaatattttt aaatattttt tataaatttt 28560
attatgatat ataattaatt tttttatatt ttgttttaat ataactttta aatcatgtaa 28620
tggtgttttg ttttctatta ttttgtaac attatcatat aatttttagt tttaaattatt 28680
caataatttt ttttgaaaat tattaatttt atcacacatt atatataata tatagtgtta 28740
tatataatta taactaataa tatttcagag actaataaaa ataatacaatt tcttttttat 28800
tgttatttat ccaatttatt atatctatta atataatagg atgtatataa actcctgata 28860
tatcgttatt tcctgttata atatatttaa tagtattata gtttttacat attttattaa 28920
ataatatctt tgttgaattt aacctatacc aaaaattata atccacatta attgaattta 28980
ataatttagt aatattgaaa taattatttc tattatctat tattactttt aaatttttta 29040
tgttttataa ataaaaatta tcatttatga aattcatttt tataatatat aatcagatct 29100
attaaatata atcagatcta tcgaaattaa ttatattatt tcaaaaaata taattttcca 29160

cattataaaa attatagtat ggaacatatac ttatTTTTtct atatTTTTtact ttatttatggt 29220
ttgttaataa tgcataattga atatatTTTT ctgtatacat attattatca tataTTTTtct 29280
gtaaaatatac ataatatgga tcgtaatTTTT ttatatatTTT atatatgTTT gtaatatataa 29340
atccaataat aaaattatta ttaaaatact taacatttat atcaaattcg catctattat 29400
ttgaaatTTTT gatatTTTTT aatataaaat tattattatt tgtaaaaaata tatttaggag 29460
atgaaatatac agaataagct tcgatgtgta tatctTTtatt aaaattatct tttattatTTT 29520
ctatagctgg aatatatcca ctatTTTTtct caacatttat attatataaa ttattattaa 29580
tatatgtatt tatatTTtatt ttgtccattt tattatttat tatttacaat taccaataat 29640
aaataatgat aatTTTTcac gtgtgtaata cattatatat ataaataatt tttaaattct 29700
ctaataaatt cttttgataa attttgatat ctacatatat aaaaccaact tattttatTTT 29760
ttatattctc tgataaattc ttcagacaat tgttgatatt ctgatattaa tgtccaatct 29820
atttcatctt catatTTTTT tataaatttt tcagataatg tttgatattt taatatatta 29880
ttccaagata acttattTTTT atatatctcg ataaattggt cagataatat ttgatatata 29940
gatatgtata accaatttat attatcaata ttatTTTTtga taaaagattc agatagtttt 30000
tgatatttag atatgatatt ccaatctatt atatTTTTtct attgtgtaat aaaattTTTTt 30060
gataatTTTT gatatttaca tacattatta aaatttaaatt tatctTTtatt ttgtattata 30120
aaattTTTTtg ataaaatttg atatttagta atattattcc aatctattat atttttatat 30180
tgtgtaataa aatTTTTctga taaagattga taaatagata tattattcca tattatataa 30240
tttttatatt ttataataaa ttcttctgat aatatgcaat ttatagttat ataattccaa 30300
tttattttat ttataaatat atttataaaa ttattatatt ttttatccaa tatatcacca 30360
ttttttaaca tatatTTtgt aatggataac caagtattat tatcattatt tattaatata 30420
ttataaatat acttggtaaa ataattagga ttagataaat acaaattaca taaatcaaat 30480
tcattttaatt tttttaatat aatatatatt atttcagaag gcaaattcatt aaattgtaat 30540
ttcattttta aatcactaat taattattaa ttttaataa tttcattttg tatttataaa 30600
aatgaaaaat aattataata taataatcat gtttactagt cataatatTTT cagattatat 30660
aaaaaaatac agatatacta catataaaaa tatgtataat aaaaattata taacaaaaaa 30720
aattattatt ataaaatatt ataattgtaa cgataaattt tttaaataat ttatatagcc 30780
tctataataa tggctattat catacattaa tactaatttt tttatatcta aagtatacaa 30840

```

attatatata aaagtaaata attctactaa attattaaat ttatatTTTT ctagatattg 30900
tttacattga tcatgtggaa ataatgatat ataattaata aaatatTTTg aacacaaaat 30950
atacaaagtt acgtgatgac ataattcttt ttattttctt cttataatgt ttgttttaga 31020
taatatatta tgtaataatt cgttatacaa attaacatta tatgtattaa taaaattttg 31080
tttctgttta ttaatttcaa ttttttttct tattttattt attacaaaat ttaatttttt 31140
tgtttttggt aatgtttgtg tcggtttagt cattttttaa taatatTTTaa tttattttta 31200
taattattga tattaatata cattaataat actaatgcat ttatcattta tttattgtat 31260
aatatttcat atattttatt aaaatttaca tattctaaca aatgtgcat aacaataaaa 31320
attagataaa taggatataa aacaatttaa agctcaggat tctacagtat taacaaaatg 31380
gcatatttta atatatatga tttttatagt ctttaatttt atttatatag tcatttttag 31440
tatatttatt taatcttttt gcgtatacat agtataacga caagaatagc ataaaagcta 31500
atataaatat ataaaatata cattttaaca tatttaaaat tatatatatt atcaaatata 31560
atactttagt ggtttaatat tattaatata ctttttcata cagatacaat tatatatttt 31620
ttcattgtat gaaatactaa tgcatatatt tcgatcaaac aagcatataa aaatgtatta 31680
tttattatct ccatcaaaaa taaaagaaat atgtactata cttgcaatat ttaatataat 31740
aatcaatatt atattaatat cgatagattt agtatcttta tcaaacgaaa atcacttggtg 31800
tgcaagtaaa ttaattataa tagttattga taatgtcatt cttttgttat caatatttat 31860
aaatttaata ttattatgtg gaatatattt agataataaa ataataataa aaacatttat 31920
attaatatat attccgtgtg taacgttata tatgatTTTta acatttatta aaatttatac 31980
atattctatg gtttattttg aaatgatata tataataatt aaaattatta ttaattttat 32040
atatattatg ttaatcaaaa tatattatga taatttgaat ttattacacg attaatTTat 32100
tgttttctac gtccaactgg aaattctgga gcaggacttt caggttcagg ttcggtttct 32160
ggctcagggt caggttcagg ttctggttca ggctcaggcc aagattctac tagttcatcg 32220
tatgcttctt gtaaaccacc attcaattgt tcaagatcgt taacttgaac atcggaacga 32280
atatgaattc tctgtaattt gtattgataa taattggtta taactaattc gctaaatagt 32340
ctagatacaa gataagacca ttgttctggt gtgaaattag cggatgcac tatcaatgat 32400
ttaacctgat tattaacata tgataaataa tcgtgatcaa atgaattagg atcagctaaa 32460
gattttttaa tactttcgga taatattttt ttgttagatt gatctatggt agcaataacc 32520
ctaatagttt tctttatcaa atcttttaca ggatctactg gtggtgccat ttattatata 32580

```

taataaaaaa aattacacga gatcataaat attttttcta atgttaaaaa tttattatat 32640
 aataatataa tattaatta aaaaaatatt aaagaacttt tattataaat gctgaaaaat 32700
 attatagatt atataaacga taataaaaata aatttatatt ctatgaatga tttacaatta 32760
 gatttaaata aaaatatatt taattcattt actaataatg aattattttt atcaaaaatta 32820
 tataatatga ttaaatcaat ttatgttaat aattcagtta ttattacaga taataatgct 32880
 gaatctttgt tattaaatca accttttact ggaaatttaa atatagaaat accattagaa 32940
 agagaatata taaaatcact tttattacaa tataattcgt cagaatcata tagattagaa 33000
 aatatattta ataataatat acttaataat attataaata atttatatac aataacaaat 33060
 caatattatt ataaaaaac tgaaaaattg aatgatttaa aattatctga catagttcct 33120
 gaaagaacaa aacttaataa taatatttat attgttaatc ctgacgagta tttttattat 33180
 gaatttataa attccgaaaa atctaataa aatatgaaaa atattataaa atataatata 33240
 tcaacatatt atgattcgat aatgttttat tgttattttg acatagatat aaattgtaat 33300
 aagatagagc atcatatttc atcagaaatt aataattata ctacatttac taaatttgta 33360
 tttttaaaaa tattgtttgt gccagataaa aaaatagaga ttcaaaatat aaataaatct 33420
 aataatatat ttctgatata taatacacaa tatgttataa atagatcatt atctaattta 33480
 atattgagtt ttataaaaata taaaaataat attaaagaga taaataatat aaagatatta 33540
 ttatctaaat ataaagataa tctatcattt aatataaata atttaaaaaat aagaaatggt 33600
 aaagttttat taaataaata tagaaattta tttaaatgtg ttgttcctct cgaaagtatt 33660
 tttgctttta gatttacagt aaataatgat atgtttatat attctaccga agatatatta 33720
 gattatggtg aaatagaaac aaaaatatta gatatttggtc caaataagat aaaaaagct 33780
 ttaaaaaatt ttataacaat tatagataat attttatata atttatattga aatatcaata 33840
 tcaaatgaag aaaatgtatt agataaaatg ataaattatt ttaatttgaa taaaatagaa 33900
 attgacaaaa ttaaaaaaaaa taaaaatact tataatagat atttaagaat atattactta 33960
 acagataaaa aattatagta tattaaaaaa acattcaata tagcatttat cacaaaatgc 34020
 atttatattt tttaaatatt tatacatatt atattttatt tctatatcat ataataaaat 34080
 tttgtgtata tcgttacaat atttattaaa atgtaataat ttatcaacgt ttgatgtatg 34140
 tactattaca tttccagtag aaatatattc acaatctctt attttacact cgtatataaa 34200
 attatttatt aaaacatgag tttcgggtatt tttatcatat ttatttaata ttttttcatt 34260

```

aatattatca tatataatat gaccatctat attacttaat tctaatatat ttttatcatc 34320
cttaaaagct aataatgttc cactattatc atattccaga ttcatttttca aaaatatatt 34380
tttaatgttt ttttatattt tattttattt ttcaaaaaat aaataatatg ggaggcagtg 34440
ttgacatcga agctagatat actgggttcct ctaatttttca agaaacatat ttgtcatttt 34500
caaatttaat taatactata tatatattaa caagagatga aagaatacca atagggtatat 34560
tttcaaaca tctgatgat tacagaaatt atcgaggata tactgctata tttaaaccag 34620
gcggatataa agaattattg aaagtaaagtg acttaggacc cgatgacttg tgttgtattt 34680
atgattggag atatgcttgg gttgatgaaa ataatatatt atcacaaaac gcaagtgtaa 34740
ataaaaattt atttacgtgc gatcctagaa ctatacaagt aggaactaat aatatttgtg 34800
ataattcgat gtatagagct tgtatattag attttaataa tcatagatat ttagaagcga 34860
aatgtgggtg ttgggttagat ggtttattta aaagatttgc aacagcttca aatattataa 34920
ataatacaaa taatatacta ttacaatcgt gttctaataa tattaataat gatttgtgta 34980
taaaatgggt aatagcaata agaaatagcg gaaatcctac atttttttca ttagcagata 35040
atgttttaaa cgcacaaaca gataaaaca atttaaaatg tgctttttct cttcatata 35100
ttacagatac acaaaataga ttaaagtgtc caaaagaatg ttggtataga gagtgtgctt 35160
tttcacaaa ttatctatta ttaactgaca atataacatt aaaaaataat tgttcattgt 35220
ctgaatgtaa tataaatatc ggaaatttag atatagtatc tgcgtcagaa gtaacaataa 35280
cttgcaataa taataaatca aatactgtat catcaagaca aaaattagat atattattga 35340
gagaatcaga agattataga tttttgttaa ctaacaacat tttaatatta attttattat 35400
ttatatTTTT aatattttta ataattagac ataattaatt aaatttttaa ttttaagatca 35460
tataataaaa tttttatatc ctttattaat ttatttttat tatcacacat cgcacaaat 35520
aaattttaat tataattatt tatactaata agtttattaa taaattcatt ataaatataa 35580
acaaatggat attttcaaaa ataaatatta ccatctataa atctgaatgc ataatttata 35640
ttatgtggta tgccataaaa ttttttattg atataattaa tatctttgac tctatattta 35700
cttagattac attcaaaagt attagtatct ttattatatt cataattata atctaataat 35760
tctatatatt tattaaatgt aaatatatat gttttacctt tgtagacat aaatattcca 35820
ttataatTTT taatattatt attaatatct aatttagata atccatctat tattgcaaat 35880
gattcattaa taatgtttat ataactgaa tctatataga taattttatt atcagatctt 35940
tgatatatta aatttatata ttcgtcgtct ctaataaatt taaatgttga ttttaatttta 36000

```

tatggtccta ttatatatatt tgatatcaaa ttcattttcc aaaaattttc attataaaaat 36060
 atatataaat aattatctat tatagtcatt gaatttggtt taatatatttc atcacaaata 36120
 ttaatattag aatctgaagt aacaaatgca ctattgataa ttaatatata taataatatc 36180
 atttattagt ttatatattttt attaatatcc tccatttata ttagttaaat ctataaatgt 36240
 attataatcc atatattcgt cctccatact tttattttta tatattgaat taaataaatt 36300
 ttacacaaat gatattttctt tatgttcgcc ttttatttta tatctatcta ttactttata 36360
 ttcatttaat tttctagttt cggtaaagt aagacagtg aatgttaaat aatataattc 36420
 cataccaaaa tcactttttt tgtgtaacaa attatataaa caagctgttg atataaatga 36480
 tattagattt ttactgata tatcagtcac tttatcattc tcaaagtaaa catacgtaga 36540
 tgttggttaa ttactgaaaa ttaaataattt cttattggga ttaatattat atggcatatt 36600
 tatatcactt ctatttaatt ttattaattt attttcatca attaatgtg ttatgttatt 36660
 tgtgtttcca gcatatgtat ttattttatt ttttattttt tttgtttcaa aaaatatttc 36720
 atttaaaaaa gcaccatatt ttctactaaa tagtccacta atattagata atttttccat 36780
 tatgtctgac ggcgaatcta atacaatcat tatataatca tatggactta tatctatcaa 36840
 ttcttttatt gatattaata ttgtattgtc gactatagta tatggaaaat tatttctaca 36900
 aacatctgat tttaaccaat aatttaattt ttgtttatta aatttattat tattattaac 36960
 aaaataattt aataatgttt tatatttatt taaagattct tccatttttt catatatattt 37020
 ataagatcta aaattttctg ataacattct aaaattattt aacatttgta aaccgggatc 37080
 tataaaatat atattattaa ttaaagattt attaataaca tttataatag aattatctaa 37140
 aaatatacaa tctattataa atatattttt atattttaac gatatgtgcc cagttataaa 37200
 aggtatacta aataaacaag tgtcatgtcc aatagttaaa tgtatatata tcataaaaaa 37260
 tattaaaatt ctatatgcat cagtactata taaatctata tcattatatt ttatacttct 37320
 atttatatta taacaagtaa atgaccata agcaacacaa tcattgtttt ttataattaa 37380
 taatatattt aatatttctt ctaatatatt ttaaatagat tcagctaatt tctcatcatc 37440
 aggatcaatt attttctttt tatcattatt aacagtaaca ttttttaatt tttgtttata 37500
 tacatattgt tttaatatct catttaatat aggattatcg tagtttgaaa tttgagatgt 37560
 gacagatgaa aaatttacta tatttatttc tctagtatta catttatatg ttacaatttc 37620
 ttttattatt ttattaacat atgttacagt taaatgttga aatttaataa ttgatattat 37680

acttcctaatt tttaaatttg gcgtattttg tttatcaaaa aattctgtta ttcttctttt 37740
 tataactatta tcatcagaca cattttcaaa attagttcta atattattaa tattattacg 37800
 cataatcaaa acatttttag taaaattatt aatatcaaat gatataatat cattttattg 37860
 atttgtaaat ttgacagat gcgatattgt atcattggat gcatttttta aatatatatt 37920
 cataatttat tcatataata ttatattaaa taatatttat ttaatataat attttttttt 37980
 tataaaattg aaataatata ttgattataa aataaatatg aatattagca aaaattatcc 38040
 acagtgtact ttaaagaca tatcagttaa tttatttgat catcagaaaa gaattataaa 38100
 atatttttat gatgtagaaa caaaaagtat agaattacaa aataattggt taaaattaaa 38160
 taatgaaatt ataaatatta ttaaagattt tataaaattta ccatcttcga tattaacttt 38220
 acaaatgtat attgatgata taattaaatt acaaaatgaa aaatcaaaaa tatactgcct 38280
 aaacgattgt tctggaagtg gaaaatctta ttctttatta ggtttaataa aatattttta 38340
 aaataattac atttacacaa atgagaagtt aataaacata actattataa tagttccatt 38400
 ttcattaata gatcaatgga gtacatatgc atcgaatatg aatattaaat ttttaatact 38460
 gaatagacaa aagaattttt catatttaga aaaaattaat gaatatgatt tgataatagt 38520
 atctaatact ttataaaaa aatttataga ttatattaat ataaataata ttaaaatatt 38580
 acgattaata attgatgaac ccgagtttat aataaaaaat aatataaaaa tatttgatat 38640
 tatattttaa aattcattac ttaaataatat tattccatca atatattatg attctataat 38700
 atataataat ccaaaattaa atattatata tgtaaaaagc gaagaaatat ctattccttt 38760
 gatgaatcct acattaatat ctattgatat aaaaaatatt actattaaaa cagtattaaa 38820
 aattaataat aatgacgaag aattaattaa aaaatttgat gtagatacat cagatttatc 38880
 cgaagaaata tatttctata tatttaataa aaaaactact attattaaag atatggaaag 38940
 taatataatt attaagaaa agaattttaa tatagatgaa gtaaataaaa ttaaaaaaga 39000
 aatattatat gaaagaaaat gtattaatta tataaaaagaa agattattaa tcaaaacttg 39060
 taatatatgt atgtctgatt ttcaaaataa taaaaatgta ataatatggt gcattaatac 39120
 tatatgtgca aattgtattc aaagaataaa agatataaga tatataaaat gtccttattg 39180
 caatataaca tcagataata tagaaaattt aatttttagt tatgatatta ttgaaaagag 39240
 aatgtatgaa catttaaaaa aaatgatatt tccagatgat agtaaaattt taattattgg 39300
 ttattataca ttatttataa aaatagaaga attaagtatt aaatggttta atgattcaaa 39360
 atattgtaaa attttgaatg gtaattctac tatttccaat aatatgttaa aaaaatttaa 39420

```

acaaacagat gatataaaga ttctatatTT tgatagttat agtaaaatTT gtggatttaa 39480
tatggaatTT gtgactgact taatatTTTT gacagaaata ttttcagaac aaacaaaaca 39540
aaagataata ggaaaagcac aaagattagg aagaaaaaaa cctttaaaaa tatataatTT 39600
tgtattacct cgataaaata atattaatTT tatgtggaat tttaatcaca ccaacaagaa 39660
aatcaggatc ggaataatta caatatataa tcatatatag taattcTTta taatatTTat 39720
ccttattata taatcctTTT ataaaagatt caaaatatat atcatcatct tctatTTTTT 39780
ttaatccgTc tgtgttataa ctaaaatcTt caaatcTgat taatTTTata tatggatatt 39840
cggataaatc aacattcTct tcacaaagTt TgtatTTTat attatTTTta tcataataat 39900
tcaacatagg tgaatacata ccaaaaaaag ttatTTTTTt atatatgtta ttatTTatTT 39960
TTTTactTTt ttTgcattta ttattataat ccataTcTtC tataatatat aatacatcTt 40020
ttggctcaat atTTTtgaat atatatTTTT ttaatataaa ttttataata ctattattag 40080
gaataatatc tttcTTTtta taacaattat aaattatTTT atcaataata gtttcatcTa 40140
TTTTtatatc tatcTtCatt tattaaaaaat ttatTTTatt Tggatattag ttatggaatt 40200
aatgaataa tttattaaga ggatctgtaa taacaactgt aagacataac acatatgaat 40260
attatTTtatg tccatctatg gcaacacacg gatgtatata tttTggaaaa ggTTtgaaaa 40320
catatTTtaga aagtataaaa ttatatTTgt cagatatTaa tgatactgat gaatatgtta 40380
taaactgtaa tggaagatat acataccccc aagactatta caaatTTTta aaaaaaagag 40440
acgaatataa aatatataat tttTgtaaat Tggataataa tataatccca tatattaata 40500
ttatggatta Tgctgcaaag tattcTtgta aatttatagg taaaaaattt tcatttagac 40560
aaagaggtaa ttattgtTTt gaaataatcg taaaatcata tattgcacTt ataaaaagaa 40620
tgaatcacac attatataaa tttaatatga ttgatatata Tgtatataaa ttttataata 40680
gtagaagtat aacaaattat attaatTTTT atttagTtTa taaaaaatat aaaaaataaa 40740
ctaaacaata taacaatagt aattgcaatt ttattattaa aaaaataaat aatatattat 40800
atataaatTc aataacaaat aatgaaaaaa tatgcataaa ttagatatgc ataaaatatg 40860
ttaatattaa gaaacatcga ttataaaaaat atattttatgt tcagtaaaaa aaattataca 40920
aattggacta tttTcacia tttagatata gataacaacg agtataatat aaatgatata 40980
tataatacat ttgttaaata Tgtacataaa attataaaaa aaaaaatatt aaatataaaa 41040
aatcaaccag catcagatga agaaaaagaa aatTTTctTa atgtattatc acttaatcct 41100

```

cctgtaactt ttgattcaat aaataatatt ttaatttttta acgaaagatt agaattatca 41160
gaaatatatt atttattttac atatttttaaat cctttttgtcg aatattgaaa aaataaaaaa 41220
taaataaatg gtttattttac tagaatatca gggaatatatt atgacccatt attattatatt 41280
atatgatact ggaaaaataa atgctaaaca attagcagaa atttgtaaaa aaactaaatc 41340
aactatgata atattaaaaag taataactac aataagaaat tcaacaatac aaaataaaat 41400
aaaacctatg gatatgatat caccagtcta actatttttta acatatgcat tatattttagc 41460
atcacacata ttattttaacg atctacataa tttattatta ttaaaacttg gatctaataa 41520
tactttttaca tctatatttg aaaataataa aaacacgaat aatggataat ttttattatt 41580
ttttatagta tttaatattg atatggtatt actaaatttt tctattaatg atatttgagt 41640
ttgaaattta cgttcacaca aaaatctata taattttttta tatttacaaa ctttaaagga 41700
tctaagcaaa acatcattat tattatcaat gttaaaatta tattcaaatg gaaaatttga 41760
tagatcttcg ttgtgttcta tgtagtatt tgaaactaat ttttccaata atactggatt 41820
aaatgcta atagaatata aaaatttata ttttttttta tctaaaatat aatcataaca 41880
tttattttatt acttccattt ttatattatt aatcgatat atattatcag aatctctcaa 41940
cgaagcatgt aaaataccat atatttttatt ttctgtaata tcgttattag gatatttcaat 42000
tttaatacaa catattaaaa tactcgtaa tgcttcaata taaaacctca ttaatcctct 42060
aactaacaat ctgtgtatat tatcttttgt tattttaatt ttattagttc taacgtgatt 42120
taaaaatttt atatctatac cttgatcaga catatcgta attatatcta tgttttgaat 42180
tatattaggt aattccaaca attgattaat attaaaatat gtatcggtgt aatgtttacc 42240
ataatcta atctatttct ctattacaat agaatgtaaa ttgtttctta attcttgatc 42300
attaaacgca aatatattat caattatatt tcgatcaaat aatatataat tatttaaatt 42360
atttattgat tcattaacat tattatatat atatgatata ttttgatcag atataatatt 42420
atctttttata taaatattat aatctaatat atttatattt atattcaaaa aatgtcttac 42480
attatttata taatcttcga tatttgtggt attagttaat aaataatcca aacaagatgt 42540
attaatttta ttaggattgt taaataatat atcaaaatta ttattatcag aattacaata 42600
tcttttttta tgtttatata ttatataatt aaatattgga aatgatctat aaaaaaatat 42660
attattaatt atttcaaatt tattattagg agcatttaaa taatttatta aaatattatc 42720
aaattcagat atcattttat tttcatgacc tatattttaa tcatacgatg ttatattttg 42780
tatttttgta tcataaatat atttatatat cataaatata gtttcgactg atacactatt 42840

agatatcata ttgctattat atataatttc attgatttcc atagccatta aagcattata 42900
 cccacctcta tatttttagaa tattaaaatt agtattatcg aataataaat tcatatttaa 42960
 tgaatttact tcaggtattc ttgatataata tacattaata aatttgtgag aaaaaatata 43020
 tgtatatttt atattttcat ttgaatatat tttatgaata tttatatttt ttgatatagt 43080
 gttgatattg tataattgtg acgtatcgac taaaaaata tttatatcat ttttttttat 43140
 tcttttattg gattggatct gtgatgtata tgacatttat aatattatat tttataatat 43200
 tattatatca ttgtcttaat ccatacgcaa cccacacaca acgcaataat tgagaataact 43260
 attattatta ttataacgac taatattaaa attttaagcg gagaatctaa tatatttgat 43320
 aaataatcta aaatactttt tgggtgttggg ggtatatatt catgaattat ttcatttttc 43380
 gatataatat cagaatatat ttcactgtga gattcgaaag atttaatgtc ttgtaaattt 43440
 ggtaaatttt taatcttttc aatttgaggt ataatatcat tatatattgg catttgtaat 43500
 tctatttttt tattatttaa tactgtttct atttttttac ctgatcttct catagtatta 43560
 ttgtaaacat catataatat attatttaat tcaatattat atttatccgg gcaataattg 43620
 gttatatgtg attcagaaag tatttcacca gtttgtatat taaaaaatcc attatatata 43680
 ttattattaa ttttatacat aattggaata tctgaataac aactattatt attataacta 43740
 tttttttcat tgaattttaa cttataatct tcgattatgt tacattgttt tactttatat 43800
 atatcatatt ctttgaaaac tttaatatta ttaataccaa ataatgcaac taaacatcta 43860
 tatggattcg tgttacacaa agcgtctatt attttattat acatttttaatt atttttacat 43920
 ataatatatg tattatcaat taaatttttt attttttaaata tataataatt tattttctccg 43980
 ctatatacac tatttggtaa gatattatca tcaaaaatat taatatatac attttctgat 44040
 ccaaataaat ttttatataa ttcttttttg tctgattcta attctattaa atttggtata 44100
 tttttatatt taattgtgaa ttcactttta tcatcatcaa taactaactt gcgtttattt 44160
 ataaatactt ttaaccaaatt ttctctaatt ttgtttaaatt ttgttatacc acatctataa 44220
 tcataattat aattatttat agttccaata aaatatttat tttcacaaat aatactatca 44280
 gttatgggat atgttatata atatttgcaa tctgataaac atgtcattat attatcggtta 44340
 gtattaacaa taatattatc aaaaccaata ttcatagatg gtatttctat aatatttttt 44400
 actaatttta ttgtaacagt tttttctatc aatttgtatg gaaaaatacc atttttataa 44460
 tttacaatgt taggtaaaac agatgaatca aatattttat ataattcaaa acttatattt 44520

tgaatattcc ataaatacat atattgtata tgtaaattat taactacatc agtatattta 44580
 catttacctt tattaatatt tgtgtctaca gcattactaa aacatttttc tattatttta 44640
 ttagctatca aatcatctga tttatcattg attaatataa tactgcgatc agagtagaat 44700
 ctatgtttga attttttaat ttcagcatat cttccagtgt cagtagaata ttctttatca 44760
 taacattcat tatatagcca tctattagaa tgtctattat tgtaatttaa tccatttaac 44820
 atattataag taggattggg tgggtattca aaagtttttt cattttttata accttttatt 44880
 ttattattag tatgtaatat attaaattta aaatcattac tatagtcagt caaacatatt 44940
 ctttcaatac ttctatataa cattgaatct aattcaacat aattttcttt ccaaatagat 45000
 gcattaatag ttgtatattt agtattattt ttattacatt cagacaatga tggatatttta 45060
 acatctgtaa aatttgaatt aacatcacat acaaaaggta tagtaccaaa tgatattggt 45120
 acttttatta ttaaaaaata aataattaat ccaaataaag ctcccatggt aaaaataata 45180
 aagtcacagt taatatatta aaattaatat attttttcat tatagtattt tataaaaaaa 45240
 aatataataa ataaatgttt aaaacagatt taactaatga agaagtatca gaagctgcta 45300
 ataaattaat aaaaaataat acttgtaatt tctatgaatt aaaattagaa aatatttttag 45360
 acaatattga ttttaacaaat aattgtatat attgtaatga tgtaattaaa gataaaatta 45420
 ttatagatac aaacaatata aaagtgggat atttttgtac aataacatgc aaacacatat 45480
 attattcaat aataagaaca attttcaatt taccattca taaaattatt aattttatcac 45540
 catttttttt attatccgaa gaatctaaaa ttaaataata aaatataaaa aatattatta 45600
 attattataa ttatgatgat atatctattt ttagtaaata taaagataat aataatatat 45660
 atactgaatt taaattatta attaataata aatttattta tctccaagaa tcgtttgaat 45720
 atatatcaaa aagtaataat tgtatatatt gttattctac taatataaat gataaaataa 45780
 tattagagca taataatgga attattaaag gtttttggtc tatagtttgt agagattcga 45840
 tatctaaaca aatatataat acaattatgc ctatttataa atttagtgca tatttggtac 45900
 catttgaatt aataaaaaat aaaaaagaat ttttaaataa tattaatcat ataaaaata 45960
 ttgataattt atatgggtggg tattgtcatt taactaataa taaaactaaa gtagaattat 46020
 ttattacaaa ttaattattt tctctttcaa ttcttttaat tatatgtatt aagtaatcac 46080
 tatttaatga cggatctaaa attattaaat tattaataat ttttatagga ggattttctg 46140
 ttaaatattg tattcttcgt tctttttctt ctctaggtaa tgatatatca ttttttattt 46200
 cattgatttt tctcttaatt atactacgaa cttttattct tagttgtgcc attaaatcat 46260

caccacccaaa gtttgaatt tctaataattt caaccactc acaacggttt tctatataat 46320
catttcttct aattaattta aactcttgct tattatttct attttgtaat aatatataat 46380
aattacaatg atctggatg ggtggtctag gaggtcttg acaaggatca attggaatgt 46440
ttaataaaaag tttgtctaatt ttcataattta aaattctaaa ttgatcacgc atatcattat 46500
tattattatt aattatatca atcaatctat taattttatt aattaaatct ttattatcta 46560
taacattatc agctattaaa ttatatattt ctgtaattct tctattcata gattcattag 46620
catctattaa tctatctaatt ttatcattaa ttgatttatt atctaatttt agcgaattta 46680
tattactaac gatatctgct atttgcgttg atatatattt gatattatta ttaatagtag 46740
cataatcatc ttttaaatta tttataatat cttctaaatc atttaatttg ttaattatag 46800
aagtattatc tatattttca agaataattt ccaataattc tttaatcgcg ttataatctt 46860
tttttaattc aataattgca ttgttaattg cattattaat aatattgata atattattat 46920
taatattatt aatactatta gtaagatcag ttaatttatc ttcaatatta tctaaattat 46980
cagttataac tgtagtttga tttgttaatt cagttaaaat agaactctgt tgtgttttta 47040
gagtttctat taactctttt atttctgtta aatcgggtat aggtaacgac attatttatg 47100
taatatataa taaataatat tgtttgttca atttaaaata ataaattata ttattatttt 47160
aaatactgta ataaatttaa tactatgaaa taatattaaa aaatattaat aatgttgata 47220
agtaggttaa agtgtaaatg tgggtgtaat aattacttta atatagatat agattttata 47280
gattacgaag atagaaaaaa tatatatattg tcatataatt tattttattt taataattat 47340
tatatatata aatcatcata cttagttata tattataata aaaaatgtat aaattttaca 47400
aaatatttta aaatatatga tcacgcaaat aataaaactga tttcttttaa atggaataat 47460
ataaaatgga taaaattaaa aataaaatat aataaaaata tttatataaa atattttgat 47520
gtatataaaa aacaagaatt aatatgttta tgtgatgact gtaattataa ttttaaaata 47580
aaatattata taaatattat agataataat gaattttata gactgttttt tactcttctt 47640
gtagaatata aatataaaat atgtaataat ttacaaaat attttaaaaa aattcaaaat 47700
aataatttaa taaatttata tattgataaa gttatatgga aaccaaacat ttattatatt 47760
cattgtggtt cataactatt taacataata tctatatatt ttattatatt tttatcatta 47820
ataatttgat ctaaatttga taatatatct tttatatatt tttcaacaca tattctataa 47880
ttatttttat ttttagata gtcttctaatt attataacat gtttagaaat atctatagta 47940

tattttatat tccacttttt tatatctttt gaccattcat ttattttatg agcatatata 48000
aaatcaaattc ttgaccttt tggtattttta tcattaggat tttttaaatt atattctttta 48060
acacataatt ctattggata attaggatct ttataaacac cactatattt tacagatttt 48120
ttaaaatcat taatatctaa attttgtata ttctctatga tattttttaa tgcagatgat 48180
aaataatcat ttattttaac attaatattt ataccggtat tatcatttgt taaaaaatct 48240
tttaatatat ttatagtatt ttttaaaata gttttatgta ttacagtaca atctctacgt 48300
attaacgcag tacctttagt atcatccatt aattgcaaag gatccatggt aattacaact 48360
tctccaatat attttttttt tgctaataat atcatccaat aatacatctt ctcatattca 48420
aattcaaaat tatctgttaa tattttattt ttcttatcat ttataacatt acctaaaaat 48480
gtaaaacatt tatgacctac ttttaactttt tcttctttac tattaaattt actttcaaaa 48540
ttaacagtta taaataaaga atctgtgtct ccatatttta cattaaatgt gaaattaaca 48600
tttaaattac cgggataatt agtttttatg ggctcatttg taaaaggatt attgcattta 48660
ttaagtatta aaacattatc tatatatttt gaattattta ctaatgtttg aatatattta 48720
atacaatttt gtccttgtag tgtacaatat tctgcgcaat atggcgaatt aaatataaat 48780
ctttctgaac cagataaacc gtacatacta ttaatcgta tttttttact atacaaagct 48840
gaagaataga agttatgtaa atctacatta tctttatttt tatttttaag atctttatatac 48900
atgtttttca tttctctgcc atcttttacc atttgagtag taacgccccaa ttctcttcta 48960
tccattagta taaatttata cattttatct ttaataattt taatataaca ataatacagga 49020
tattttataat tatcttttag atatttttct actttatttg ccgcttcttc gtcacaaat 49080
aactttatta cttttactac tttttctgga cttaaatttg cttctatgat tattgatgga 49140
tattcggaat taaaatcaaa cactgctggt aaactatcaa tatatttttg ttttggttca 49200
ataacataac caccttcgaa tttttcaa tctacattac ctggatatat cattgtttta 49260
tttgaatata atgtttttta taataaacct gatataattat tggaactttt gtattttaa 49320
gccatacact gtggtataaa atattcattg ctaaaatgcta ttattttatc atgtatcata 49380
tcgtatttaa aaatacaatt acataatata gtatcgtgag tacaataata ggctatatta 49440
tctgattttt ctttagtaaa attaacatat gcatttttat ctccaatatc aacatcatct 49500
ttagataaca taactgttgc ataattatca ttaataggaa tatcattttc atatatggta 49560
aattttttat tatgcgaatt ttttatcgat gttaaatcat ataattttc tatatcatca 49620
ataatttctg tcttattttt tattttatat ggattattat taataaaaca ataattagca 49680

```

gttccttataa catcataaaa tatagatat ttgtttttat tagcttttgt attcaatgg 49740
tcgataatat attcattatt attatatgat atcttacaaa atatattaaa tctttcttta 49800
gttattttctg ataacttata actatttgac gaaggatatg tttttttaat ataattatat 49860
aaatctaaaa atataattcc gttagtgtcg tcaatttcat atgtagtatac ttgattataa 49920
gaaaattttg atatttttat ctcatTTgta gaatatacat tatctaaaca taaacctttt 49980
aacttattta ttttcctcct 50000

```

<210> 24

<211> 50000

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 24

```

atcttgaata tatgtaaaat caaaattatg tccgttgtat gtcaaaacat aatcgaaatc 60
ctgcctaaga gtatacaata caaaatgtag catatatTTT tctgtacaat atattgtaat 120
atatacttta tttgtattta ataacttatt aacttcggta tatataaatt tatctttcct 180
ttctcccaca taatttttta ttatttcata gtttattaat gttattattt tctttatcgg 240
atttgatctt ttatccatat accaatctat acaaagtga gaaataggaa atttattagc 300
tgttggaat tcaccaaatt gttggcattc tatatcaata gaaacgcgac ttgcaggaat 360
atgtttatct attttaacat aattagaaaa taacaattta ggatttttgc aataatatga 420
tgttttattt ttattatatg ttttaatttt ttgcatatta tccatattta ttctatatga 480
tccagatggg tctatattat ttaatacata aaaccaccta tattgattaa tgaatatatt 540
atatttgcta tatattttct ctattttata aggagtcata aataaaacta aatcattatt 600
atttaatggt attttactat cttcagtata attataataa tattgtatat taacttcatt 660
tgttattatt ttataatctt caagaactaa ataagaacta ttgaatgaat ttttatattt 720
atctatgtta ttttttatat tttttaattt tgtatttgat tctgataatt cgtaatcaca 780
aagaaaatat tcatatatat caaataatat atatattatt tcttcgggat cataatcttt 840
gcatttacat actataaatt gttctaacga tgatgggtttt attatatacc aattataaat 900
tttaatatTTt atttctttac tttctagttt atcatacggg attaatatat catcattatc 960

```

```

acatgggttta tttaatattc tttttagata tctaatagca ttataatcac ttccctttttc 1020
tttattttgt aactgtgtta tatcaaattt taatatacca gttcctaataa aaggcatctt 1080
aaatataata atttttttta ataataattat ttcaaaaaaa aaaaaattta atatataattt 1140
ttactattta aacgttcttc gtatgtttca tcaataaaat ttataaaaga ttctaataat 1200
tctttttattg tatttctcat aatagtattt aatgaatatt ctgcgtcatt aatctcttca 1260
tctgatgggtt ttaaatatgt tccatttatt ccagggtatat catttataga acacaatgca 1320
tccattttat tcttttctat aatatcatct acgttaatat atttataatt cattttatga 1380
tctaataatat tagaataact tattttatta ctataatcaa cattattttt tttaatTTTA 1440
atattttcaa atatatctgc tattttatta aatatatcaa taaagaattt ttttatattt 1500
tcttttaggaa tatcatcata atgattatat cttatatcta tagtataaat atctttttct 1560
tcatgatatt tgctatacat agaaaatggt tttttatata ataaattttt ttcataataa 1620
tgtttagaat tttctatttc attttttata tcaactttca caggataatc tttaaatggt 1680
aataaaatat ttttatgcaa attgatattt tcttcaattt ttgaattaca tgaaaataat 1740
aaaacgtgtg atgaacctat agcatcatct gttttacgtt ctttagataa atttattata 1800
tgatgtttat cagaatgttt aggattatca ataattttta ttttaccagt ttcgatcata 1860
aatataaata attttatatt tttataagtt aaaaaatggt tgctaccatc gtcaataatc 1920
ggtaagtata taccacaatt atttatttca tctaaattat tattaataaa atatattata 1980
tcaacatacg ccagcatatt agctatattt agatatatag gtcctaaatt atgtttgggtg 2040
tctattattg ctttagttta agttggtatt ttaatttctt tatcaaaaat attaataata 2100
caattgcata ttggatatat tttttttttt ttaatatcag taaaattata tgaaaatatt 2160
ttatgttcga aaaccatttt tattttataa tatttatatt ttttcaatat tgttattatt 2220
gataaggatt aatgattatt taacaaatta aataattata ttatagctta tcaataaata 2280
attacttata tcaataaatg aaaaaaaaat ataataatac atacaagatt atagaagaaa 2340
aaatttataa tacggatgga caagaaatag tagacgataa tttattaaat attataaaga 2400
aatataaacc tcccaaakat cttaataata tagaattaat agctaaaaat atcgaggaag 2460
ctgacaacgg tataatatat attggtattg atagtaaaaa taaaaaacia tatattttacg 2520
gaataaatta cgtaaaaaaa agaagaaatg acagaataaa aatattttta aaagtagaaa 2580
ataaaatacc taaaatagaa aaatatatta ataaagaatt gaatatattc aaaaaaatg 2640
gtagtaattc atcacacata tacataactg ataaaatgat ttttgctatt atattattag 2700

```

tagaaatgtg	tttttttata	agaactggaa	aaaaaaaaata	tttagaagat	aatgaaacta	2760
tccgattatt	gacattacaa	aaaaataatt	ttacaataga	aatgatggt	atatatataa	2820
attttaaagg	aaaattatct	caaaatcaaa	attttagcat	attaaaagat	gagcatttat	2880
taatatacaa	tatgattaaa	atattatata	ataagactaa	tgattttata	tttaaaaata	2940
gtgatgatat	aatatttaat	gaatctaaat	tatattctat	gattaaacaa	tttaatataa	3000
agttaaaaga	tataagaaca	tttggagtta	atagagtttt	aatacaagaa	ttgtggaaaa	3060
atgttagaga	tttagatatt	atggatatta	ggcataaaga	tataaaaaaa	ataatatcag	3120
aagtagttaa	aagaacagct	aatataattg	gtcatacacc	aactatatcc	aaaaatagtt	3180
atatagtaga	tgaaataaga	tctataatag	ataaagatac	tataaacaaa	gctaaagaaa	3240
tgacatttga	tgaatattat	aaatatattg	tagataaatt	aaaagaatta	accaattaat	3300
cagaatcttc	ttctaattca	ttagaattga	ttttattaga	atgagttatt	tcttcatccg	3360
aagattcaac	atcatctttt	tttttcttaa	tttctattct	agaatttttt	ttattattct	3420
ttttcttagc	atctttaagt	ttagattctg	tgatcgattc	atctatatta	tcccaatttt	3480
tatttgcacc	taaagtgttt	aaatttaatt	tttctttcgg	tttatctaac	gaaacttttt	3540
tattttttga	tttatcacgt	ctatctccga	atttaataac	actttgacca	gcttcatttt	3600
tatctataac	tggaaaaata	attttaggat	cattaaaatt	attttttacac	ttaaatttaa	3660
ttttatcaat	tttttcagat	tttaaaatat	ctttattatc	attataaagg	tacatataca	3720
taattaaatc	atttaatggt	ctgaaatatt	tatctaacaa	tggtccaatt	acaagttaa	3780
ttttatcaca	cacaatagat	gtaatatatt	cagatgattt	gaagggtaga	ataaaaactaa	3840
tatcgttata	tttataatag	aaactatcat	caatattaca	gttaaaatca	caatttaagt	3900
tagatatttc	tttaacgaaa	acattatcat	tgaataattt	atttgtatat	gtcataatat	3960
tattactata	attaactaaa	atatcattat	taatattaat	atcatataat	tttaattctag	4020
ttataactaa	aatgtatta	tttaacatat	taattgtatt	gtcatattta	tttaataatct	4080
cttttaaatt	atctgacata	tcagaaaata	ataactcaca	actgaataaa	tcattattaa	4140
ttacattatt	atatatttct	agtgtttttt	cattattaag	tttaacagag	acttttttgg	4200
tattaacggt	ttgatttgca	cgttcagatg	ccattttata	ttcttttatt	attatatatt	4260
ttttttcagt	ttttttaaca	aaaatataaa	attataaatg	gatcagatag	aaataattaa	4320
aactattaat	agtatgatag	aatatataaa	aaataccaaa	gataagttat	ctatagataa	4380

```

ttttatatctc gaacataaag atttatatga taatgtagtt atttattcaa aatattttatc 4440
agataaagat tttaaatttt tatacgttat tgtagaaaaa tatccagacg caaatccaaa 4500
tataatatat aatatattta aaacatcaca gatatctata acgcaagata ttaatataaa 4560
taaaataata cagaataaag ataatacaaa aataaaccaa gatatacaca catataatta 4620
tttggttatta ttaaataaat tatatatatt tcaaccaata ccaaaattta taaatatatt 4680
atgggatata aatcaaaaa atgtagataa tctagacaaa ataaataata taaatacaaa 4740
ttcgttaaat ataattacaa atatagaaat gtcaaaaagt aatattattt atatatcatt 4800
tacatatatt tcatcttata tagaatcaca taaaagtga cttacgttaa ataaaaaatt 4860
ttctattttat gataatttaa gaagaataat tggcgttcct atatctaata ataactataa 4920
attaaattat tatattaaag ctaaaataga ttcagaaaaca ttaatatata atatatttaa 4980
ttctgtagct tttaaaaaag taataatata tggatttga gtttatcaaa taaaagatgt 5040
aaaaaatata ataaaagata cgattaatga tgtttcgtca tacatagtta ataataataa 5100
agaaaaattg tatcaacgta catactgttg ttgttatttt ttaaactgtt attatgaaaa 5160
aattttttaa aatttatcca cacaaacata tgataaaata ttatattcaa atgtagttaa 5220
tattaatgat gttattcata aaaaatatga atatttcgaa tgtcaacatg tacaagaata 5280
taaaaatggt tttaaaaatg tagaaaattt ttatattaat actaataaat ttctagaaaa 5340
ttatattaat attgttaata aagtagctat atgtaaaatt tgtggagaat cgttagatat 5400
gtttaatttt gaagaagcaa atttatattc atctaaaggc gaaattataa taacaacaaa 5460
taaagaaaaat attttccaat atgaaactta ttcaagatta gttaatgctg aattattttt 5520
aacagatatt ataggaattt atgatgatat ttttaacaca aacagaatgg acgattttta 5580
taatatatct agaataatta ttgatttttt tattgatatt aacacaaata gattagaata 5640
tcaagataaa tataaaaaac aaatctctaa ctccaaatta ttttttataa gattgtcaaa 5700
taattttatt atagcagttt ataatgaaaa agaacaatat gccgaagaaa gacaactaaa 5760
catgtttata atattcgga tatctttatt attattaagt aattttaatg aattaatagg 5820
tataataaaa aataataaaa aattaaaaac tatatttgat aatcaaaatg atattaaaat 5880
aaatttagat aattttataa agatactgt attcatatat ataagtagga atagattaat 5940
agataaaaaa agtagagaat tgattaatta tgatactata attgatgttt atttaaatat 6000
attaactccc gaattaaaat cgtgttataa tataatatta aatagattat ataaaaatat 6060
agatatttta aaatatgatt atatagaatt accagatatt ccattactac ccgtaacatt 6120

```

```

aggatataaa cacaaaaata ttgatactgg tectacaata tcttttttac cactcgaaga 6180
tgtaattaat tataataatg taaatattta tgaaagtaat attagatata ttacatacga 6240
tacgttaaaa attaaaaatt tatctgattt tgatattaaa gatataaatg ttgaattaaa 6300
aactataatt gaaagattta attctgaata ttactataga aatattagta tattaaactt 6360
tgaacagatg gataattata atttttatat agatatagga caaaaatatt ttttttatat 6420
aaatgatgta ttatcgaata gtaatattgt aataaaaagt aatatttatt ctaaaataat 6480
gaattttggt gattccttgc cattttttaa taaaatatat aaatttcatt atacattatt 6540
at ttgataat ctgaatttat taataaattt tttatatccg aatgttaaaa ttatat ttaa 6600
ttatgatcaa gattatataa ctagagatta ttttcattat attgtttata atatattaat 6660
ttcattaatt aatactaata tattatcatg gatagatgta aacaaagata taatatctaa 6720
attatatgat aatactttaa gattttatgt taaaaatata tattaaaaaa atactatata 6780
tcatattggt cattttcaat agattttata atatttatga atttatattc ttcacaacga 6840
tttaaagtaa taaaatttat attacatatt ctttaaaaac aatagcatta tttaaattga 6900
aattcattat taaagtatat aatccagaat catttatgta tataatcttt gaattatttc 6960
catttaacgt gggagacaaa ttgtctccca ccttatataa tatttctcta tatgattttt 7020
tataagattc tttcaatctt tgtaatat tt ttttaaaact agatttttca tattctaaaa 7080
tattttaa ac atctttgcc caaaaccacg gattgtttta tgtgcctatg acatctatag 7140
at ttattatt aaatttaa atttcattaa atgtttcaat aaattttata tctaattcat 7200
cgtttaaatt ataactaaa ttagaagatg tgtaattggt gataagtata ttttccatgt 7260
ttttataaaa attaatatat tatttcaatt atatatcata ttgttcattt tcaatagatt 7320
ttataatatt tatgaattta tattcttcac aacgatttaa agtaaactta tttccattaa 7380
tttctataaa aggttttcta tttcctaact tatcttttaa aatactttta tcttttatta 7440
tatctttaag attgttaatt cttattttat ctaattcata tatttttagac tttaacttag 7500
aacacatatt aataggatta ggattatatt tttcatctat aattacgtta tgtttttcta 7560
gccaaattaga tttattagtt tttatatatt gatcttgagc tcttataaat ttatattcat 7620
tattaataat tttatttttt aataaaagat atttatgttg taatttaacc tcttttaggtt 7680
ttacattcct atcttctatt acaacattta atttatcttt aacatctttt atttcttctt 7740
tagtttctat aagatttatt cctaattctt gtaatttatt taaagctaatt tgattttgtg 7800

```

ttaataattc gttatTTTTgt ttagatatat tgttaatctc taatgattga ttatctatTTT	7860
TTTTaaacaa atcatctatt ttatctTTTT ggTTactaat aatatccata tattTTTTTTT	7920
gagctctTTTT acgaatagaa ggtaataaaat caaataatat ataattTTTga aatcctTTtag	7980
cagaatctTTT agtacaatgt aatataatat aatataaaacc agcttcatta acatatattg	8040
ctttattatc attatTTTTc gtgggggggca aattgccctc cacagatatt atatcattat	8100
aactctTTTT aaagctagta tTTaatctTT ttaatacaca tTTtgactt tgatctgtat	8160
attctaattcc atctattaat atatctTTTcc cTTTaaacca aggattatct aaactaccta	8220
ttatgTTtat agatatatta tTaaattTaa atatattatt aaaattatta ataaaattat	8280
ctgtTaaact atctattgaa atataattaa gatcgacata tttatcggaat ttaataatta	8340
tattTTTccat tttatataaaa tatataatat ttcattTTTT aataagtaac catattTTata	8400
aaaaaatatt tataataata aattaattat tttataattt tataattttat gaaaaataaaa	8460
atatattTTta tTaaaaataa ttaatatataa ttaatatgac tttagtTaaa cataatacga	8520
tgcataattt tttacattca aaatcaaata tatctgaatt agattatagt attgaatctt	8580
cgTcagaaag aagagatata attataaaaa aatacgatac attaaatata aaaaattata	8640
atagaaaaac aagTTTTaat gctatatTaa taacaagcga taataaaatt attattgcag	8700
aaagaaaatt tagctattat atggacacaa tatatataat atctacatat aaaaatatat	8760
ctgatgatat attagaaaca tttattTaaat tatttgataa attaactaat aaagaaaaat	8820
ataatatata taataaaaaa agaataaata aaaaatatat ttcaattata aattttattg	8880
aagtatatTT cgatggTaat ataaatcata aatattTaca atattttatat aatgtTaaat	8940
ctagaattat attaaataat aatttttagat acagagataa attTTTtaatt ttacctggtg	9000
gtaaaaaaaa taataatgaa aatattTaatg aagTTataag tcgagaatca cacgaagaaa	9060
taaatatTTcc tataaataat caagataata ataatatTTga tataatgcaa gactattatt	9120
cagaaactat aatattTTgat aaaatactTT caaaaaaatt tattgatgTT actatttatag	9180
caaaaatcaa atatagTTct attcaaatat taaattTTctt taaacccaat catgaaatta	9240
gtaatatTaa atttatacct attaataaaa taaattcgat gattgatata ttttattatg	9300
tacaaaaaca attaatctat tgtTaaatat taaataacat aaataatatt tttatataaa	9360
atggTTaaat atattTaaatt aaataaaaaa atattTtaatt atataaaatc aagattTaaa	9420
tcacaagaaa tattaatata tgataaaaaat tctaatacatg ctataattac aaatgatatg	9480
atagaaaaata ttgattTTaga tataatatgt ccgTTgattt tgtataacga aaatgataaa	9540

```

attattgaca aaattaataa tatggataaa tttattgagt gtaaatatca attaagggaa 9600
gatcaattag agttaattaa taatataatg aatattaata ataattattc ttgtaattca 9660
cccatatatt tatcattagt atgtccttgt ggatatggta aaactatatt gggatatagat 9720
ataatatcta gattaaaata caaatgtgct ataattgtac ctagaatttt tattatatat 9780
caatggttag ataaaaataa acaaaaaaat aatataatttg catctacgtg tggtagaaaa 9840
aaagcgattg aacaaataaa aaatggttta gagtgtgatg tgtttatatg tcctgataaa 9900
catttagaaa atgatattat tagaaattat atatataata cgtgtagttt agtaattggt 9960
gatgaagctc atcgatataa tgctaataaa aatatagtaa tgactagatt tttatataat 10020
aaaatattta aattttgttt gtttttaact gctacgccat ctaataatat gaatactttt 10080
ataaatgaat ttattgatat taataatcaa tcacagatta aaatattaaa tgatattaaa 10140
aaaaaattaa ttatatttaa tttgaaagat aaaatattta ctccaattaa taataattgt 10200
aaatattatg ttaataaaat aacaaataat aaattcaata atatatatat aaaaaatttt 10260
aattacaaat attgtatttc tcttgatgat aaaagaaatg aaattattat agatttaata 10320
ttaaaaacaa ctacggataa tacaaaatgt ttaattttga cagattatag attacacatg 10380
atgaatatat ataatttatt aaaaaaaaca cacttacaaa atataattta tatatatgat 10440
gtaaaaaata aaaaatgtaa tgatttgtaa acagaaatta aaaataagaa tgaaaaattt 10500
attattatat caactatatt tgcttgttct gaatcattag atattaataa tttaaatact 10560
tttcatgttt tattacctat tactaattct aaaacaataa aacaatgcat aggtagaatt 10620
atgagaaata tgaacgaaga taaatatact tatatatata atttttctaa catcaataac 10680
atgattaata tgtatattaa tgataaaaact gatttaataa gaaaagtatt gtctgattgg 10740
gaatgtgtag aaataaaatg ttcattattaa aggtgaattt ttatcaaaat aataataaat 10800
aaataatgaa ttttatgcca caatattact atataagtga tattaataat gaaattgaat 10860
atgacgaaaa ttttaattct ggtaaaaaat ttgattttta aagacaaggc caaattaaat 10920
tattaatgaa tgaaataaga tttttaacag aagatgtaga attacataaa aattacaaaa 10980
atgaaaaatat taatatttta tatattgggt ctggtaaagg atatcatata cctttattaa 11040
ttaatatgta ttctgattat aaaatacaat gggatctata cgatccatgt ggtcattgtg 11100
aaaaattata taatatccaa aaaaataata ataataataa aatttatgat acatatttta 11160
ataaatcgga ttagaaaaa tatgaaaata tcgataattt actatttata actgacataa 11220

```

ggactgtaga taaccccgac gacgaaccaa atactaaaaa ttttaataaat gattatgaat 11280
 tacaaaaatta tatattaaaa gaattaaaac ctatatcatt agtaaaaacaa cgcgatcctt 11340
 ttccctaatga ttgggatgat tcttataaat tatcaatacc tgatggtaag gaatatatac 11400
 aatgtttttca aaaatataat tcagcagaat atagaatatt tataatctgga attacaactt 11460
 ttgtagatat caattctgtt atattaaata aaagaggaat tgatagaaaa ttagcttggt 11520
 ataatatgaa atatagattt caaatgata atgattataa aattgcatat agaattattaa 11580
 ataaatatat aaaatcagaa aacaaaccaa tattaaaaaa atataataat attaataaaa 11640
 ataataaaa aaatgtcatt agatcattat ctaaagaaat gggttattat taatttataa 11700
 cattatttag tagtatttat atacttatca aaatattctg aaaaattaaa attagttggt 11760
 tttatatattt gattaataaa atccactaat tttgttacta atatttttct ataagatggg 11820
 tgtattttcta aaggttctga tgtatcttct atttttatag attttatatt atttgaatta 11880
 ttttgatcaa cttcggtagt aatataatat atatctactg gcgtcaaacg tttaacatta 11940
 accgacatta catatgtatc tttttgttta tagacatagc aaacatcttc gggatatttca 12000
 tatttttcta ctttttcatt tgggttttcg atagatatat taattttatc atttaaatta 12060
 taagtaacta aaataggata agatgtatca gaaaatatta atctattagg atttcttatt 12120
 ttatatatttg tatcaccact cagaaccata attctattat tttgtgacga attattaata 12180
 ttattcataa aatcatttat cgagaatttt gaattttcac taatataatc tcgcaaatca 12240
 tatatattat agactaagta attatttttt tttttagtag gtgatgtata tggtagtagt 12300
 ttatattgac tattagtttt taaaaaaca ctttttctc caattatttt aaaaatagtt 12360
 ttattatctg gaatatttgt agctccagct ataaaattat ctatgtatct aactctacca 12420
 gcgtatgaat tatcaaaatc agatataaat gctattgggt tacaatacat ttatttaata 12480
 aacaattttg aataataata ataattaata aataatcatg gacgaatgta ctgtaaatga 12540
 acttaaaaaa atttataatt ttattgatgt aaacaaattt ttaaacttaa aagtagaaaa 12600
 tataaattta tttaaagatg ttaatttaga taatactgat tctgatgaaa taggattatc 12660
 tataacttaac ataaatgata aaaaaaaaaac attagtagaa agattacata tcccagataa 12720
 atataatgac tatattaaat tagataattt gtttaataat caaaaattat ctggcgatat 12780
 taaattaaaa gataatattt taattgaatt agaaaaacaa aaaaataatt ttgtatatga 12840
 agaagataaa tataatggtc ctaatcttat tggtgattgt tttccagaat tttgcaaat 12900
 atgtaataat aaaatcaaaa taaatacaaa ttttaataat gataatgttg aaatgcaaat 12960

aatatgtaaa aaatatcctg atcatatatt taaatatgag gattattggt aatttaatat 13020
tttttattat tttttgaaaa ataactatta aatatattta attaatataa aatgggtcat 13080
aataattcca aagaaaaaca agtcataata tttacaatt atttatttga aaattcagat 13140
tattttgaac gtcataaatt atatagtctt tataagaatt tattagctgt gaatgaaata 13200
gaaaaattat tttgtgataa actaggatat aatataaata tttgtgaaaa ttatacacat 13260
agtgatatta tagataaaat atcaaattta tttaaattatt ttgaaactaa caaaccttcg 13320
attataataa tatttgtatt aacatatcat accaataatt ttattcatgc tgcagataaa 13380
tcatatccat tacaagacat tattagaaca ttacattaa ataaaaattt agaaaatatt 13440
ccaaaagtat attttataca aacagaaaaa tctggttatg atttatgttg taataataat 13500
aatgtaatag atatccaagg ctctgaaaca ctaattttac gatcaataaa taataattct 13560
ataattaatg aattttgttt aaaatataaa tacaataaaa acttattaaa taattgcatt 13620
gaaatgcaat caattccacc ttcacatatt atgatatcta cattaacaaa aatgaattat 13680
aatttatgat ttttataaaa aaaaatttct atttaataaa tatttttctg gatctataaa 13740
atgataacaa tgatatccaa acatatcaaa tgccatatca ctataatctg ttacataatt 13800
attattattt attataatat ctttctgaga taacgaataa tgagtactaa catcagttat 13860
aattattatt tgatcttttt ttacatccat attccatttt aaataatttt taaaattaat 13920
gcaattattt aaattattta gtgtaatatt tgaaaataat attgcagaat caaacgaaga 13980
atacatatta aattcgcaat ttgatatac tttattaaac ttgacatata tacttttatt 14040
aaataatttt tcttcgatta taatattatt atcctgtttt atactaaaat atatattagt 14100
atcattttta ttataatacg actcattatc aaacattata tcttcaatta tatctattat 14160
tttaaattta ttataaaagt gatgcacatt atcaaatttt gattcatggt agtagctatc 14220
cattttttat aaaaatatat tttcattttt tattaattat tgaataaaaa taagataaaa 14280
taaataaata ataatccgat tgaagaagat attgcaaatt tatttttgca atgcgatoct 14340
agattggata taaaatctaa agttttgatt aatgtagaat taccatttaa aaatttaa 14400
tatgatttgc ctacgttatt taatagagaa gaagttatat atacaaagat aagtaaatca 14460
ggacatgaag atgtcataat gaaaataaca tacgaaggta aagaagataa taaaaaagt 14520
tatttatatt ccagtttaga taataaagga ttttatacat atatctctat ttctatttct 14580
atatatagaa aaataacatc attaaataat aaaatagaat ataaaataat atctaataaa 14640

acatattcgc atacagaaat aagaatacct cagtatatag ctcacggtgg aaatacatca 14700
 gaaaatgata attctataac acaatcaaat aatcctggtg gatttttttaa tgtttcaaaa 14760
 agttttaaaaa aaatggtaac tactagaata gaacaaacat atatttatcc aaaacgtaaa 14820
 aaaactcaaa aagcatatac ttatcatctg gcattcatta gtaaaaaacc atcatttatg 14880
 atgataaatg aaaaattaaa cccgccacag tttttaactt tagatataga ttttaatcca 14940
 gataaaataa aatgtgtaat agattctaaa aaaacattct taciaaattga tatcatagca 15000
 ttaataatag cattatctaa tgataacatt gatgttggtt ataaaaaat aagttctggt 15060
 tttagtgatg atatatctga ttcaatcaaa atattaatag aaaatactaa aaatatttta 15120
 tctgaatata ataatgatgc cagacaatat gtcgacaaaa taatcgaaat taattatatt 15180
 aaaaaatatt caaaaaatga aataacttta caagattatt ttaataatat tttcaatgat 15240
 tttcttcctc atataggccg aggaaaatat aatgaaaaat gtatgtatat gattagtatt 15300
 ttaagacaat cttttgtttc tatatttcaa tcagatgttt atccagataa agataattta 15360
 gctactagaa gaatttcaac tgctgctgat atttttgaga atataataag gacttctatt 15420
 gataattctt tcgaattagc aagagataaa tataaaacat atatttagtg atctggtaag 15480
 aacaataata taaataatat tttatctcaa gttaaattat taccacaaat aacacaagcg 15540
 ttttaataatt ttttcaatat gcaagatact aaaaatagtg atgttgtaaa aataggaacc 15600
 cactcaaatt gggctgaatc tatttatatt tctaagtctg tagaaagagg tgtagtata 15660
 gaattaacaa aatcactaac tcaaagaaaa ttacacgcat catcaattaa tgtatttagat 15720
 atgatggata cacctgatca tggtaaaaa actggtcttg taaaaagatt atgtataagt 15780
 acattaatat cacactatcc tatacatatt agaaaacaat tatttgaaga agttagagaa 15840
 tttatagaaa acaagggttaa acatacatta aaagaagata ttatttccgg tgtatttata 15900
 tcaattatag atgaatctga acacgtaata gctcgtataa aaaattcaga aactgaatct 15960
 tttataaaag atttaaaata tgcaaaaata tcaggattat ttgttaaaaa tgatataggt 16020
 atagaaatat taaaatttca tgaattagat aataacaaac aaatatatgt accaacagat 16080
 agatattttc aaataagaat aaatgttggg aataaaaagag caacacaacc agtatattaga 16140
 gtagaaaatg gcgaattagc atttaataaa taccctaatt tacatgctga attaaaagag 16200
 agtaattctt acactgattt tgtaactaaa tattatgata ttatagaagt tattgacgta 16260
 ggacaaatga tatattcaaa tatgtgtaac acagttacag aatttaatag ttacagttta 16320
 gaacaaagaa aaaaatatga ttatgttaga ttaccaaatt atttatattt tagttattta 16380

acatcgactg gttgtatgta tgatattggt aaaatgacgg gtggttagagg tacatttgga 16440
 acagcccaaa gtaaaccatat tataacagga cctccagata atgtaatgaa taaatatgat 16500
 acatgtaact atttagcata tcctatagaa agaccatcaa taactaatat tcctatggaa 16560
 atatctggta tagcaagaaa tagtataggt acacatgttt tagtgggatt ctttagtttt 16620
 aattacaacg tagaagatgg cgttattgta aataaagaat cgataaatag aggattatta 16680
 tctgtaatat cattaatgtc tgtaaaaaat gaattatctg atacacaaat aaacaataat 16740
 aatccaagtg cagaaaattc taataataat tattctaaaa tadcagcaac aggtttgcca 16800
 tcaataggaa ctgttttagt acaagggtgat gcgttataca gatgttttaa accaaaattt 16860
 aaaaatgatg atgataatag atatatatat gatcaatctg aaacactatc taatacttat 16920
 ccagccgtgg tagaaagaac aagaaaacaa ggtacagatt taataaagat tgatatgcta 16980
 ttgtcatcat atagaagatt gagtgtagga gataaaatag caaatctgt acaaaaagtt 17040
 actgtttcaa aaattatgga agaagaagat atgccttata atgaaaatgg cgaaagacct 17100
 gatataatat ttaatagtcc tagtattata agtagaaaaa ctcttccttt gtatgacgaa 17160
 gtttctttat gtaatatgtt ctcaaaaata ccatataatg ataatgtga tgtagaatat 17220
 attaattatc ctatatatac tgataaaaagt cctttggata aatataattt tatcaaaaaa 17280
 gaattaaaaa aaatatataa taatgtaact gacgaagaat tagaaaatat tatatatgtt 17340
 cgacaaacat tatatcacc atatacaaaa aaacctatga ctataaaaga aggtgataaa 17400
 gaaactaaat ctttatggg acctatgtta ttctgtagat tadcacaaat gtcggcagat 17460
 aaaatatcag taagaaatag aggcagatta gataaataca tgcaggctcc gtctgggaaa 17520
 aaaaaaggcg gaggtattaa aatcggagaa atggaaagt atgtttttgc tacaaatgga 17580
 tctgtatatg caatacatga attacaatca gatcctgatg aattttattt accagctcat 17640
 atatgtggaa attgtggaat atttgctact tatgaagaaa atatagaagt aaaaagatgg 17700
 aaatgtctac agtgtgaaaa tcttggtttg tcaccagaaa taataaaaat gcgtttaact 17760
 tatgctacaa aaatatattt cacttttta aatgctagag gtatatctct aatccctgta 17820
 aaagataatc agtctatacg ttatatattt gacgataata ctattaatac ttaacgatat 17880
 acaatcactt aaaaacatgt ttgataataa tctatagaat tttttaaaat agaatttata 17940
 ttaccgcaat aaaaacatc tattttgtct ttattatcta aattatccaa taatatttta 18000
 tatgatatac atttaatatc atttagtttg ataggaatgt gtacataata aaatataata 18060

tatgcacaag tgtctaatat attaaaaatct atattaaaaat atttattatt atattttaaaa 18120
 catatatctg ggtaatcttt atttttataa ttattactac cattaaaaatt tttatagtta 18180
 ttataatttt tatcaatact atacattatt ttgtgatatgc aatttatcac ataatcgggtt 18240
 ttatctatat tactaagtat atcatcaact gttatatttt caacatcaat gtcaatatta 18300
 atatcattat tattaatttg tttttttaat aattcaaata ttttttttat acatttttatt 18360
 ttttccttta tatctttatt atcaatgtca ttgtcagaaa tgtataataa taaattttta 18420
 aatattaata ttagtttgat aatcatattt acaagtaatg tgtcttaata tagttataaa 18480
 ttttcagaaa aaaaaaata attatattaa acatagatca ttttttccta taatataatt 18540
 ttttactata gctattattc gttcactttt aaatatatgt ctctgtgata aggttttcgac 18600
 atgattaaat gtagatttag ttgttgaagt tactatatat attttataat tatcatcaaa 18660
 ataatcaact aatatcccat aataatattt atcgttattt gatcttattt taactattgt 18720
 gcctcttata ggccctttcat ttatttgttc taaatctttt attataaattg gaaatccact 18780
 aggaatatta ttataatcaa tgtatttatt aaaagctaata ataaaaatatt ctataaaaatt 18840
 gtattctggt ttatttttaa attgttctaa cacatcgcaa atataaatat attcagtttt 18900
 tgtattaatt ccatttaaag tatataattt tgttaacgga gataatatta ctaatgtagt 18960
 aatgtcaaaa ttaaaataca aatcttgat tttaaataca attgttgctt ttggtacatt 19020
 atacacatca taatgtaact ttccgctata aaatatatta tttctatata atgtgtatga 19080
 aataagtagc ttttggaaatt ttatttgatc taatctataa gtatttgaaa atgtataatc 19140
 atatacagga ttaaaattaa ttgatatat ttttgattca aataaaacat caaaaacaca 19200
 tctattattt ctattattta aaatatattt atatattaac ggaaaaccca tagtttctct 19260
 attttctgtc atttttgata atgtttccca acaagaaaaa gatgtcaaatt cttcaataat 19320
 atattcacta acatatttta aatttttaca aacaatagga ttatttaata tagaagtata 19380
 taaaaaaaat atttttattc tattttcatt aaaattgtca acattaacat tacttaatat 19440
 ttgtctatca caatctttgt taataaatat acttttttaa taatcattta ttgtagatag 19500
 ctctttacca aatatattat tagtcataaa tgtagtatta tcagacattt attactatta 19560
 tttttgaaat aaaaaacttt aaatattgat acattagaaa gatgattaaa aattttattt 19620
 tactattttc aataattata ttttcttata atattatgta taattatgaa aataataatt 19680
 ttatcaaaaa aataatatat attaaagata ttatttattt taataaaaaat attaacaata 19740
 tgtctgatat ttccgaatgg tattcgattt ttaaaaaatt aaaaattaac tatgaaaata 19800

ataatacatt atatgattttt attaataata tatataatga aaaaacagta tcattatttag 19860
 ataatatata taaaaatatt gaaaatttca aatattatta taattataaa aaatgcaaat 19920
 ttacaaaaaa tattttattgg aattatataa attttaatca aattaataat acagagtttc 19980
 tagaaatatg taataaaagt ttagaatcat ggataaaaca tatagattgt aaaaaattta 20040
 tttttaataa tgatagttat tatgatttgc aaatatccgt tataaatgat atgaatgtat 20100
 ttgataataa taataatatt atagcttatt attataataa acatattaaa ataaattata 20160
 ataattattaa aaaacatatt aataataaaa agtttttgac attaatgtta attcatgaaa 20220
 taggacattt tttaggatta acacatataa ataattctca ctcaataatg aatccatatt 20280
 taactaataa tattttatttt aattatgata tagatgattc gtataaaaata ttacattatt 20340
 ttgatattaa tagattatga tgctagtatt atcattggta taaatttact ttgatcagaa 20400
 ttaatattaa atatatatga attaccctc acccgtattg ttatagtatc atttaataaa 20460
 tcataagtta ttataccttg tcttttatat attacatttt ttgataaaaa tacatatatt 20520
 tgtcttaatt tattattatt aaaattatta ttaactgcta ttattggatc atatatagta 20580
 gtaaaactca ttaattcata tatatttaaa ggataatata ataactactaa agatactata 20640
 aaacatattg ttataataat atttataatc cacgaaaata acattattta tatataaatg 20700
 tataaatatt atttcgggta tggagctaag cagaatatta attattttaat aaaaagatat 20760
 aataattatg attttctaaa ttataaaaata ggtattattt tgaatcattc ttttaaatta 20820
 tgttatttcta aagaaataaa ttcagtaata tctactatag ttagtgataa aaataatata 20880
 gtttatgggtg tgttgtacga agtttctgaa agtatgatga aattatttga tagacaagaa 20940
 catattgata aatatatata taaaagaata aaaatgcctg ttttaattatt agaagatgaa 21000
 aaaataattg aagcatatgt atataaagct atatatgata atgataataa tatggcttct 21060
 aatttttata gatatagaga tatttatatta gatgcagtta ataatatatt agattatcca 21120
 ttgtgggtata aaaaatatat aaataatata tttaaagaat atttattata aaatatatta 21180
 aattaactaa ttttaattaga aattttgaaa aatatattaa tagttaactc acaatggata 21240
 acttagtaaa atggcctact ttttataata atccatatat attattaaat tcgcaatatg 21300
 tagctcaaag atataacgat tctaaaaaca aaatatctaa agatgacata atgagatgga 21360
 ttaatgattc aaataatatt aaagcacatt ttgatataga aattttatct gaacataatg 21420
 aaacttttaa aatatataat actatagtta aattaacaga tttacactct aaagattgtg 21480

atatataata aactgataaa aataacaata aacgtcccag attattgtat attacatttt 21540
 gttgtttata tcttcattgt aaaaatgtta taaatttgaa ataataaata acaaataaat 21600
 acaaatacaa atatggattt aataaatata ttaattaata aaaaatttat acctgattta 21660
 tgctcattaa taaatattga aggaataatg gaaatattaa ttgataaaaa tataataatt 21720
 atagatgata ttaacaatcc ttcgttatct gaattaaaaa tttctataaa aacaatatat 21780
 gatatttttg aatctatgtt tggtaaaacg ataattaaaa aaataatatt tgaaggttta 21840
 ttaaaaaatg tattaaacga aaccatagat cccaaagatg aattattaat gtatacgggt 21900
 tattgtaaag attgtgattc ggacgctgaa atttttaatt tagatatgaa tgattacgaa 21960
 aattcattat cttatgcaa taatttagtg atgaacttta aatataaaaa ttcttatact 22020
 tatttagatt tattttgtga taaatgtggt aagacgttgt acgacaaaga tccatagaa 22080
 atttattaaa taattgtatt ttattgaata tattctttta aacaaatctt ggtagtggtg 22140
 atatagaaga aacgaaatat tgaaaattaa atattggatt ataaaatcaa atttaataata 22200
 gttatttatt taattatatg atagtgtaat ttttatttat attttatatt aatattatta 22260
 gaattatttt taataaaacc aggatcaata ttgcagtaca tacatttaat attttctaata 22320
 gtagttggta attttatagt tgatatatta ctatctatat tatatgatat gtctaatttt 22380
 tttaaattaa ttaaagtttc taaaaattta aaatctttta ttttagacca tgaacaatta 22440
 atttcttcaa ttgtaatagg caatattata ttagatataa tactattttt attacctaaa 22500
 atatttaatt tttttaattt ttttaattaa tttaaaaaat taaaatcttt tatattacaa 22560
 tacatacaat caatttcttc taacataagt ggtaatttta tattagatat attattattt 22620
 tttaacacat gatatatcta atttttttaa attaattaaa gtttctaaaa atttaaaatc 22680
 ttttatatca caatttctgc aattaaattc tgttatcgaa gtgggaagat ttgtaatcaa 22740
 attaaaaact taaaatatta cgattaacaa gattttttga ccagataaga aatgtagata 22800
 ctatatctaa atattataaa acaatagaca tcattatgca ggtaaagatt aaaatacttg 22860
 ttattactta atttaatgga taattattta ttattaaatt ctctattata ttcttctgtc 22920
 ataaataaat aaatataaaa gacaacaaag attacataaa agaaatctta tggaatatgt 22980
 ttttgatcct tatccattca atgatatttt tatataatat ataaacaaca aactttatta 23040
 tatatttaatt ttttgttatt atattttaaa ataaatatat ataaatgaat atatcaaata 23100
 taaataatga tatatatctt ggtgggttgg gaaatcatag cacagaagaa ataaaaaatt 23160
 ttctaattga taataatatt aaatgtataa taacaatatg gaattttaat aaattaaata 23220

```

taaaaaaatt aaatattaat gttaaagatt atatgtatat acacgcatat gatctaacaa 23280
atgaaataat tattgattat ttgatatta ctaacaaatt tataattaat aaaataaaag 23340
aaggtaagaa agtattaatt cattgttatg ctggtatatc aagatctgca agtatagtta 23400
ttaattatfff tatgaataaa tataatataa attatgacga agctgaaaaa atagtttagta 23460
aaaaacgaaa tataaaacca aatatatfff ttatacttca attaaaatff tataattcat 23520
ataaaaaat ataatattatt tatttaatta tattatffgc tattagatat aactaaaaat 23580
gaatataata gatttgttta tatatffttac accaattata attatattat tattatffat 23640
aatatattat atattattat atgtttactt ataataacca ttcttaataa ataatfffff 23700
tgatattfff gctaattcac ctttttctgt tttaatagat ggcaatffat tactaacaga 23760
ataaatatca ttataggcag ctctatatgt accgtctatc accaatatat tattaggatt 23820
taacttattg caatffttac atatgtctgg tacataatat aaatfftcac tcatttatat 23880
taaataaata attagtatta ttggctatff gtgtffttta tctatctatt tgagctctta 23940
gattcattat atgttcattt tgatcctgta ttaattgcaa atatatatta cgttcattaa 24000
ctaaattatt atattcgtca tttaacatat tatatcttaa tcttaattct tctaattggt 24060
ctattaaagc attataatct cctatattaa aatcaaatat ttgttctggg acaaatctta 24120
aattagctaa atattcatca tcgaaattat ttaatgaatt tgttcctggg ggtatattta 24180
ttatffttata gtatattata ataataataa ctgtaattaa tattatcgac atgaaaaata 24240
ataacattta atctctcata ataatcagtg gattfftcaga ttftaaataa tatatffttat 24300
ttttatcaaa atatacattt tcgtctgtat taatatatff aaatffttgc ggaccatcat 24360
atacatcatt aataaattta aatatatata taatacttct tttagattcc aatffttatt 24420
ttacattcat ttftacatat atattatata ttftataagg tatatcaatt atatffttat 24480
catctgtgct caataaatat ttctcagttt ctgaaccata caaatatata ataaaaatatt 24540
ctaacatatt aatffcatat ttattaaaaa ttctatatat ttftattata catttatcta 24600
tatctattcc tatagacttc atataattaa cagttfftat tactctatta atattatcag 24660
gaattacaaa ataatctfff ttatatctta aaccataata tttaaaaatt attatgtaat 24720
cccataaata ttgataattt atatffttta aattagtatt taatfftatct aatgtgtatg 24780
ttcttatata tgttcctfff gacactcttc ctactctacc ttftctffgt ttatacatat 24840
tatttgttat atatgttata ttccatcta taaattctff tctatatact ttccattat 24900

```

ctattactaa tttagcattc gatatagtta tagatgattc taaataatct gtacttatta 24960
 tgacatgaat atgtttttta ttatttttcta tataacgaat aacttcatta gcattatctg 25020
 tttttccgtg tatagaataa aatttatata taggatcttt tatactttct tctaattttt 25080
 ttttaataaa agttaatctt ggtattgatt cataaaatat tataacagaa tatccaacag 25140
 gtgggtttatt atctaataat attttatcta tactatcaac cgtattttct atttctgtaa 25200
 caggaaataa tgtaaatcca ggtatatata ctgtactat tttattatta aaaaatctta 25260
 atatattatc ttttcaaact tctattgttg cagatattaa tattatattt ctgatattta 25320
 taactttttt taaaaaatat gatactgcta tacatatgtc agcatatcta tcatgttcgt 25380
 gtatttcac c tataattata aactggaat tttttaaatt atttattgac aatctgttaa 25440
 cacacaataa taaattagtt ggaaaaataa ttttattatt ataataattt ttatataatt 25500
 ttatatcttt atattttatt attatgggag tttctgttat ttcagaataa cctagtgtt 25560
 ttatataatt aatagcagta ctatttatta tagtttttct aggtaatgat aataatgtat 25620
 ttttttcaat tatatttata tcaaataata aattatctat agatacatta gaaattctac 25680
 tattaaacat atttatacca tcaaaaagaa gattatacca ccatattatt ttaggtataa 25740
 tagatgtttt tcctatacca gttccaccag aaacaacaca atttaactta tttataaata 25800
 aatcaaatat ttttaattgt acatcaattt gtattgatct aagggttagat tccttaaatt 25860
 taaataatat atttttttct aattctatat tattaatata tttaggaaac tttttttttt 25920
 gttcttcatt tgtagataat attcctaata tattagaact ttctacaatt ccaaataatt 25980
 gattaatatc taaatttcct aatctatatg gtaaatcata taatattgtt gcatatgcgt 26040
 atgcagaata agtaattgta gatccgtttg atctaatagt tataatatta ttatttatat 26100
 ctattccac c tattaaaaa tcatttaatta attcaatact ggtattatat atttctttat 26160
 tatctaaata ttttttatta ctattttgat tataacaaat atacatattt ttccaatata 26220
 gtttgtaaac aggtgataat aatattaaaa aatttatatt atattttttt acataatcaa 26280
 aatcaatata tgattgaaat atattagtat tattaggaaa taataaatgt gaaatatagt 26340
 tatatttatt atgtaattcg ggaaataaat tatatgtttt aaaatcataa atatttttaa 26400
 tttcttgcat tataataatt tatattaaaa actaattata tatattattg ttgtatgaat 26460
 aaagtattat tttttcttta tttttattta aaaatttaat aatatcatta atttcatttt 26520
 tccatttatt ataattttga attttattta gatcattttt taacatatat atattatttt 26580
 gtatattatt aatactattt attaaatcac aattatccat atttaaataa cattaattaa 26640

acaaaaaaat aataatgata aaattataaa tttaaattccc actttttatta tatgggatta 26700
 tgatataaaa ataattataa aaaaatatag tattttatatt attatttttt tacaattact 26760
 gtttattata tttatattat attatttttt atatcaagaa ttaattttta tatataataa 26820
 tatatttgga tatacattat cgcctgatga taaaaataat tataatatat attataataa 26880
 aattagaaat attttagact caaaattata ttgtgataat aataataatt tgagaataat 26940
 atataataat acagacattc cagcctattc attaaatggg gaagttataa gtgattgtaa 27000
 taattttttg aaaaataata ataatatgta atatatatatt attatattat acaaaatgta 27060
 tatacaaata ccagaatata aaaagtcata tatgtgtaaa agtttaataa actctggaac 27120
 atacggaatt gtatataaat atgcagatat ttatacaaaa aataatgttg cgattaaatt 27180
 ttttagaaat aatgataatt ttacacacga aataaatatt ttaaattata ttaaaaaaaaa 27240
 aatatataat aattctgata gtgatgaaat aaacgaagtt aaaaaaata tctgttttcc 27300
 gatatttttt acaaagaaa ataatgtttc aaaatatatt atatttaatt attatgatta 27360
 tgatttatta tattacgcat ctacatatat attacttaat caagatatat taaatataag 27420
 ttacaaaata tgcaatggac tgaaatatat acataaaaat tctattgttc attgtgattt 27480
 aaaaccagag aatatattat gtaaataata aaatgatata ttgcatcttg ttataacaga 27540
 ttttgatta tcgtatatag aaaataatat tattgattat gaaatcgtaa catttagtta 27600
 tagatctcct gaattaatat gtactattaa taataaaaac aatataattg taaagtcttc 27660
 tatagatatg tgggtcttttg gggtaattat atatttttta attaataaat tttattttga 27720
 tatttataat attgaaaaat atatagaatc taatcctata aaaaaattat gtaacattaa 27780
 ctcgattgtt gatagactgc tacaatatga aaaagataga tatacaagtt atcaaataa 27840
 taatgatctg aaaaaattat tgaaataaat ttttatatta gttaaataatt tttatatatt 27900
 attaaatggc agcatatata atttttaata tgaaaactat ggtattaaat aacgatggac 27960
 tatatgatat cataccttat aaagcgtcat tatccatttt atataataaa aaaataatat 28020
 tcaatgatat attttttatt aagtataatt tatacgaatc aagagttgat aagaaaaagt 28080
 ttaataatgc aatttccttt ttaatgaata aaaatatatt tccaaccaa gaacacaaag 28140
 gaaagaaggt tattagatat aataataaaa taggacacga tcctgatagt tttaggaact 28200
 ttatcaaatc tttaatattt attttaaaaa attatttaaa cattacgcca atattagttt 28260
 cttcacacaa cacaaacaca atgtgggtgt taaataagct caaaaataat aaattagtta 28320

cgacaataaa ttatattgat attcctacaa ttataattaa taatattgat ttaactaacg 28380
 attgcgatat aattaatgat ttttgtatta actatatatt aaatagtaaa atagaatata 28440
 atatagaatc taccgatcac aataaagttt tagatacaat tttagaatat atttctatta 28500
 ttgttaataa taatttataa tcgatgtaaa ttttattata tagaaattat tattagtaac 28560
 aatataaata tattaaggca agagaaatgt gtcgataata tattatttat ataaatctaa 28620
 tattgcttca attatcttaa tcagtattaa ttattaatat attgatatat aaatttacat 28680
 ttttacaat tctttaatac taattaatac atttgataac aattattttt tttaactaaa 28740
 ataaaattaa ctaatattat ttagtaagcg taattaaagt atatgcagtc tacgaatttc 28800
 aaattaagtt atacatatca tttaatatca attaaactaa aataatactt ttttttggac 28860
 tatcaaaaga ttgttttaaa taaattagaa aattaatata ttatcgacaa taacatatat 28920
 taatattatt ataattactg tccttaaatt atatacagta ttttataata atatatacta 28980
 tatacaatag ttatataaaa tattcaatta ttggacttgc tatgacaatt atataaataa 29040
 tataagctgc cattaactac aattattgtc aaatattaac tactaatatg tttttgtaaa 29100
 ttataataat gattttattt tgatatatgc cattttaatt aaagcttgat attttatata 29160
 aagcgtcttc tgtaagtga tattttatca ccataggttt aaattttata cccgtgtttt 29220
 tgatagattc tatatcatat tgatcgaaaa aattactatt aggcgcgcaa gcttcaatta 29280
 aagatccatc tttttgtctt agtaatatct ctgtatataa atttgaatat tctattttta 29340
 aatctttttt agataaattt ttgatatta ttatttcgga ataaatcgta tcagtaaaaa 29400
 ttaaatcaga ttttaattcc atatttaatt tattattatt attatttcaa ttttgtttat 29460
 caaaaaagtc aggggtgtat aataatttga cagtatcttt atgggtatttt ttagaccatt 29520
 tcttcagaat ataaaataac ggtagcgtaa attcattatt taaaatttta tcgtcaaacg 29580
 tagaatctgc tattactata tttctattat ctgatgttat attgacagta tctcgtgata 29640
 atttttcatt gacgaattgc gtctcattta tttctataac tgcaatacgt ttgaccaaaag 29700
 caggatctac tgaactaaac ataggttttg gatttaaattc tataaattgt gttaattgtat 29760
 ttttgatgaac acatttagat ttatttaaatt ctctaccta aatatattgt tctgtatatt 29820
 gttttatatt tttgtttaga aatacttcat ttcgattaac atcaccttcc gaagcaaaaag 29880
 aaactaattt atcttctact ttacctaacc aagagttggg tgaatttttt ggaatataat 29940
 tttgataaaa ttctatagga ggttctaaaa acatgtcaaa caataattgt cttataaat 30000
 atttaatagt agatttacct ccagaagttg gaccatataa tattgttata acacttttat 30060

gacaataatg taacacagac gataaattag tttcaaaaac tatcctttta ggattagatt 30120
tggaataaac taaattaaat aattttaaaa gaattattata attattttca aatttaattt 30180
tttcttcacg agacatatct tctatatctt tataatcaat tttaatatag tttagacgaa 30240
tatatttttt tgcattctcg ccagtataaa atttagattc ttttaaataca tatactccat 30300
tattaaattg tataatataa ggattaaaac aaataatata tgtattcata gataagttag 30360
cacttattct attttttgct tctccaaaaa atttttttat aatataatct atatcttgta 30420
ttaacatatt gtttctgcat ttttctaata tcatattact tattccttga aaaatataag 30480
gattatcaac gattgccccat tttccatttt tccaataaac atatgcatca gaatctatct 30540
ttttaataat atttaaactct cttataaaat tagccaattc atatcctgat aacgtaggat 30600
aatcatattt taatgtatta caatttcttg gatttccact cttaaataaa attatttttt 30660
gttctgtaaa ttttataatt ctattatttt tatgtaaaga atttttacca catattttac 30720
aatcaggagt attaaatata aaatttatat caataatttc gtctaattca gcgctatggt 30780
tttttttaaa taactgaatt gaatcatcag aaattgtaat tttataatta ttatataatt 30840
ctttagaat atttctaata aaatgaggac ctctaaaata tttaatatga ggataaatta 30900
catcaagatt tgtaaatta ttatcttttg cttttattat aatatgtggg tcattaaaaa 30960
ttttatatgt tattatatat ttttttaaat ctctatatt ttctatatta taatcatgct 31020
ctgagtgaat atattcacta tcatttttct tactatatat aaatcttaat tgtgtatttc 31080
ttctaaaagg agctaaatct atattattga ttaaaatatt atttattttt gatcttaaat 31140
ttattatata tttctttaat tgtataaatg atgtaggact tactaatatt tgattaaaaa 31200
atatatgtaa agataatttg tgcggattat cagataatgt atagtaaata ttattaaata 31260
taaatttttt tatattatcg atgttatgat tctctatata aaaattatta gaaaatatat 31320
tatacaattc atatgatata aattttttta attctttaat atatttttta acatcatcga 31380
tttcatattc tgttttacaa tctatatcaa aaaataattt aaaataatca gtaatatcat 31440
caagtataaa ttcattgatat tcagaaatag gttgattgct atctttatat tttaaaatac 31500
ttctacatat ttggatata cttattttta cttaactctt actagtttta tcatttaata 31560
ttaaatctat tttagattct ttagtaacat ttaaagattt ctgtaaata atatatctgt 31620
ctgacatttt tttattttat ttaaaatata tattttattt tttcaaatta caaaaattta 31680
taatgtaaaa tataataaag aaaaaatatg tattttacat ttatttttag ttattggata 31740

tatctttgaa atgattaatt aaaattataa atgaatactt gtggaagtta cggcgatgac 31800
 atagtctctgg aatataaagt tcctattaga acaaagttaa atgtacaatc tgggtgctata 31860
 acaagcaaaa gcaacgcata ttcaaataca ggaagaagta attgtaatag ttgtggaact 31920
 aatggatatt caacaggagt aggatattca aatacaggag tgcgatcagt tagtaacaca 31980
 tggagcaata acaactggga taataatcct agttgtgttg ttgagactag aggcagtaac 32040
 agatatagaa cttgttatta tagagatggc acttcaacag tagagactta tccagtataa 32100
 tagataatat ttttcatcta attaaatgaa aaatatttgg agaacatata tactattaaa 32160
 ttttatatta attaatcaat ctatgactac agctacttct gatcataatg tatctatcga 32220
 ttatagtaaa ttgtatttta aatcgttatt acctattatt aacaatagta caagtgtagg 32280
 aatggataaa atattctatt cattaatagc attgtgtaca gtaatatatt taatagctat 32340
 gtgtgttagt ttgtttacat cgttactaat atattatatt tatgataatt ctaaaaaaaaa 32400
 aattataaaa tcaacaatgg gaattcatac tcaagtttaa tcattaacta aaaatgcgtt 32460
 tctgatatta ttataaaact tatcatttat cattactatt atatcataat aatttttgtgta 32520
 ttcatcttgt tctaaatttt ctaaatttaa aattataata tttccatcgt ctatatctgt 32580
 taataataat acatgtttta acgaaaaatt aaatatatta tatatatatt aatctagctt 32640
 aaataattta ttattttatat ataattcatt attattgtct aatattgata atgtaacttt 32700
 attttctata ttaatacatt ttattttatt atattttttt attttattat tatcaatagt 32760
 attattatct attaaaatat cattttttgt tatatattta acaaataatt ttttatttttc 32820
 atcttctatt aatttaatat aattagctat ttgtgtacaa tttagtaata aagatttcca 32880
 ttttttaaat ttatatatt ttttatcttc gatatcaatt attatgttat cgttgtcatt 32940
 ataaattatt attaaaaaat tatttataat tatatatctt ttatttgtaa aattaaattt 33000
 aaataatata actttgttta ataacacatc ataaactata tatatatctt cgtaattgta 33060
 tgttttaaat acaaaatatt tagtaacatc ataaatatta tcctcatgtt ttattaatga 33120
 acaatctata tcttgcacca aaggcgctgt tacaaaattt agatatatat cttttctatt 33180
 agcaataggt tcaatataat gattattgtc gtattctatt aaatccatta taatttaata 33240
 ttaatttatt ttatttcaat aaattattga aatatatttt atttactagt gtatttatat 33300
 catcaatggg atcatttatc ggatcacaat tatctatatc atcatacaat ttttgtatat 33360
 tacatatatt tttttctata tatgtgtaaa ttttctctaa tttagatttt gatgttatgg 33420
 attttatact aattttattt tttccaaaaa acctattttt tttatcttca aaaaatattg 33480

ggtatttttaa tataactatta gtataattaa aatcacaaatg tataactaagc gatttttatgt 33540
 gtttttcggtt tttttcatta tttgtgtatt cttttgttat agagaagaat gtttttaata 33600
 tattagaaca tatattatta aaatcttgca tattatttttc tgatttatct tttgataata 33660
 ttatctgtat tttattatta tcatataata taattcttga tctatttgaa acagttatac 33720
 taatagaatt tggtaataat aatctacctt cagtaataat tttttcatta attattttcta 33780
 atattatttt atattttatt gtaacctctg atgttaagtt attatattca gactctattt 33840
 cataatatct agtatgatta gtgttatttg atatattatg cacattatca ttattaaata 33900
 actttattaa agttttcttc ttttcttttt tttttttaat aaaagaatca aaactagtat 33960
 tgcaattatt taaataatat ttaagatatt gtgtattttc attttcttta atggcattaa 34020
 tattaatgca ttttttttta ttatttttat tatttatatt aataatattt ttatatattt 34080
 cgggatttat caacgataaa ttaattatat ttttattttt ataacaacat ctaacttcta 34140
 ctatgttttt aatattatta agtttagtac tagaatattc attattaatt attatatctt 34200
 cgcgaaaatt agaaaataaa tttttatata ttttattatc aatcgaaaat ctaaaattta 34260
 ctattgttct tttaatatca ttagaatatg cgtagtttat taatgaatat aattcttcca 34320
 ttttatattg taattatata ttttcaattt tgaaaatcca aaatattatc atattcttcc 34380
 caataaattt ttttctatc agatggtgaa tcatttatat ttttttgaat agttaaccat 34440
 agatcgata taacacattg aatatcatta ataaatttac ttattatatt tttaaaactt 34500
 tcgtctatta tgaaattttt aaataatccg tctattttat attgtcttgt tttttcatta 34560
 aatacaattg tttttaactg cgattttaca ttattataat tattgttct taaattttca 34620
 catttaacta taaaactatc gttaaccac aaatcttctt ttattaatgt aactgattca 34680
 taaatatatg ataaaatata taaataatgt ataacagatg tagatattac acaaggtaat 34740
 cttatagata gtttatcgtg ttttttattt aacggattta atatatcaat agtaacatct 34800
 gttgtattat atatatttgt ccaattcttc atcgatgaac cacttttttc taatttaata 34860
 tctgttttaa aaagattatt ataagaataa tcgtaatctg ttttattttt tttcttcata 34920
 tcatcatatt ttgtaaaata tcctatatta tcatttaatt tatatgtgtc ttgtatttct 34980
 ataactattg acaataaatg atatataatc ccaaaatatg atttgggaga actattatta 35040
 taatattttg gttttatatt ttgtattatg ttaacacttg gtaattttat atttatacc 35100
 gaagatataa tagatttggt tatatcgagc atttataaaa attataataa ttcaagatat 35160

```

aaaaacaaaa aatataaaaa atgtgctaaa tattaaaatt ttgtgttaaa tttaatat 35220
ataagtgcaa cgtgatgaat tattattaat ttattttttt ttatttaatt tttcataatt 35280
cgtaatatata gaaataaaca aattcttata ttaaaaaata aatattaatg gctcattcca 35340
gaaatatata aatccaataa ttttataaat aaatatat 35400
tattttattg tatatatattt aaaaatagct ttataagata tgtgaaagtt ttattaaatt 35460
gttagatcaa aaagttataa attttacatt tatacccata agtaaaatta tatattatag 35520
gatattatat atttaatact tacatattaa ttaagacatt aacacaaatt aaagcataat 35580
attgtcaatt ttatcaattg cttttttttt aaaaaatata tcagtcattt tatacttaca 35640
caagtaatat atcatagtat caattattat tgctatatga aattattttat aattctatat 35700
taatcgacac ccaagtacta aaaataagta aaatacagat ataataatta ttatttgaga 35760
tcaacatata caaatgtgtt tatattttta aattaatatt tatagctaaa taatttatgt 35820
taatggcaaa atttttggct gtaagtaaat aaagctataa ttaattaaat aaacaaat 35880
caaataat 35940
at 36000
tt 36060
at 36120
gt 36180
tata 36240
tt 36300
tac 36360
tt 36420
aata 36480
ta 36540
ata 36600
aca 36660
act 36720
aga 36780
ta 36840
att 36900

```

atcatatgcc atatacatta cattagagta acctgtgtca tgtaattgtg attttaattt 36950
 gtctgatata attttttcta catctgataa ttttggttct ataggaacat ttgttataga 37020
 ttcaaacata ttaaagtaat tatcaatttt ttttgatttg tatgatattg atttaatatc 37080
 tgtataatcg ggagtcatat aaaatacatt attttgatta tattcttctt gtgtcataat 37140
 accagattcg ttaaacttaa gtattattgt atctgaaata gaatttttta gtgtcaaadc 37200
 tcttatcttt tcatataaaa tgttaaaaga taataattct tgtatatttg tttctaaaaa 37260
 tggatttctg acacatattt taaaatcaga tgttattact atttcacatt ttttaccatc 37320
 gcaccacaat gtaccatatg gattaaaaat acttaataat tttattctat ctcgtaaaca 37380
 ttctatttta aattttatat acatttagta tatatatact tttttaagat tatattattt 37440
 taattataaa atgtgttgat atatttttta cgtataaatg aacgaagata atattattaa 37500
 gcatttgagt gttatggcat tcatggatag ttctaaatta aatatgttat tgagtactaa 37560
 atcagctgga tcacagaatg attatttaaa agaacacaga tggataaaaa ttaataatat 37620
 gaacatggct gcgttagcat acgaagataa tggcagatat ttttattcta aagttcattt 37680
 gataaaagat tcagatgata atatgggtat taatagtgtg gatgcttatg gaggacaatc 37740
 aaaaaaaga ggaaaaaata atccaaaaaa taataaatta gttaacgcaa atccttcagg 37800
 taatggtaga agaaaaaaaa atgtaaaaaa agcagcaa at tcaactgatg attcggatca 37860
 taatacaaat ttaatgggag aatataacga tgaaaaaaat gagtaaatag atatttatac 37920
 tcttttaaat tttttattaa ctatgtttta tataggtttt actttatcat taataaatat 37980
 ttttatttca tctatttttt catttaataa ttctttttta atattaggta tattacttaa 38040
 attaatctt tccatcatat tatctacaat atcataaata ttatttttaa ttgattgtga 38100
 taatccta at tcatttaatt tttcttttat tattaatttt atatcatttt tgttcttttc 38160
 atataattcg ctttaattttt ctttattatt atataattgt gataaaatat ttataatatc 38220
 tatttttatct ttatctatgt taatatcaag tatattcttt aattcaccca atttatcatt 38280
 caaatcagaa ttagtaaatt ttgttttata tttgtcatat attttatttt tataacaata 38340
 cataaaaaa ttttaataatt ttattaatat gtgaattata tgcaatctaa tatgtaattg 38400
 tttatatcca ttagtattat catttatatt tatataattt aaatcaccca tatcacattc 38460
 atatatatta ctgctttttt taatctgaca acatttaa at tttatattga gattattact 38520
 aaaagataaa atacatttat ttaaaaattc tgacgtatca aataatttac taatgaacga 38580

atttatataa tcatttaatt cgtgcgtaca tttaactgta ccaatattaa tattcattaa 38640
 tataataaat atatttctgg ctccctcaat ataataatta ttatcacaat tttcaaaggg 38700
 tttattaaat ggtatataat catttataat ttctataaat attttacgta tttcttcatc 38760
 atagaaaaat aagtcaatta aatttgctat aaacgttggg tctttataat tattcatatt 38820
 tttaatcata ttattaattt taaaattgat attttcagaa ttatttactt cctctttggc 38880
 tttacaaata attttttgtt ttaaaatatt tatatttaatt ttattaatta gttctttata 38940
 ttcatttaat ataatttttt tattttcttc cgaagatata ttatatacat aacttagagt 39000
 tccgtcttta ttattaaaga aagaaaaata ttttaaataag atgtatttca ttgaattaat 39060
 ccattcatta tcatcaaat ttctaaaatc attttcttta atgtaattat taataaaaaat 39120
 cctttctata tacattttat catcatcata atttacttct ttttaatttta tttctgggtt 39180
 tttttcatta atagatagta taatagtatt tgctaaatta atatagtgtt tttccatatt 39240
 tattattata atattttttt taataatttc tattattttt atatatagat aatttgatat 39300
 tattttaaac taatataata taatcaataa tattatattt attatttatt ttaatattta 39360
 tccaatctaa taaatgattt aataaaatag gatgtagata tattccattt atattatcat 39420
 atttatcaac tattttatat tttattttat tattattatt atttttatta ttttaataaat 39480
 tcatataata ttttattaat tttatagttt ttttattatt aagccaatta tttatttttc 39540
 tataattttt tatacacaca tacgaagcat tgaaaaatcc agttttttta tcaattacta 39600
 attgataact atttatatga gcagaataaa atgtattttt tatttttttca tcatatatta 39660
 tagaagacat tttaactatt attatcttat tttatttttc aaaaaacata ttttttacat 39720
 ttaatactgt ttttataata tgttttgata ttgaattttt atcaatatta tttaaatatt 39780
 ttaataaatt attgtctgaa ttatgtctat atttattatc tttatatata tgatacgata 39840
 aatcatgtaa taaacattga ttatcaattt catttatggg cttaatacca gaaattatat 39900
 tttttattac atttgtgtaa ggaccacaat agttatattt taatagatgt aatggggtaa 39960
 tttttttatt tttcatataa tctattggga cattaatatt atatgcagta gtatgagaac 40020
 atttatcaca tataatattt aataatatat attttttatt ttcggaaata atagtattaa 40080
 attttgttat atagtaattt ttacacattt cgcattccat ttaaatatat aataaaattt 40140
 aatttttgta tatatattta taatcataat attccatatt aaatttatct aaatctacta 40200
 cattttcaaa gtaatattt gtcggatcta ttatattttc ttttataaag tattttatttt 40260
 tatatatattt tatgtatcta aatggaataa ataaatcata taacatatcc atattaaaaat 40320

atttataccc ttgttctaata aatttatgta aatttactgt agaataattta ttcatacaaat 40380
 gtaatatatt tttagataat ctattatctc ctaaacataa aaaatcatca atagtgaata 40440
 attttatcat attaataaaa tcaatattac tacaataatt tataatcatta tgaaagtata 40500
 attgaaaaaa atatttaaaa ttgtataacg aaaaataatt tataatcttca atataaattt 40560
 tatattcatt aaggtaaatt atcataatta aatactttta ttctatatat tttttttaag 40620
 catttaatgt ttaataagca atttggtatt cctattatat atttaaattc agtataacat 40680
 gtaacatctg cgtctgttat tatttctttt atattattct ggaaatcttc attttttagaa 40740
 acaattatta tttcagattt attatttata aattttttta atttacataa atctatttta 40800
 tctatttgat cattggatat taatattaaa tcacaatctt gatcattaca ttcgatcatca 40860
 tcgtaatttg ttattatata tatgctagat tcataagata atatttcatac agatattatc 40920
 atatcatcat ttgttattgg tatattaaca tcacacgaca aatctatatac tttatatgat 40980
 tctatatcat taccgcaatt atatattata acataatctg cgtagacat tattattttt 41040
 ataatatgaa attatacttt caaaattatt aaataattaa atggatataa cagataatag 41100
 ttatgaatat tcgacaataa acccacaagt tatattttta tttgatgaaa acaagaatgt 41160
 taaaaagaca atatttttat ctaaagatag tataatagat aatagttttg catatggagt 41220
 atataattat ttattatcta caaatacaaa atttctatca caaccagaat atattaatga 41280
 tcatgttata ttatcattca atcttgaaca agctagagga tacattagaa atatattaag 41340
 aattaacgaa aatattattt tattttcaat atggcataat ttagattatt attataataa 41400
 caatgaaata tttgatccat ataataataa aaataattta ttaatagaat ctaatgataa 41460
 taaaaaaata ttatatatgt tagatattag tattactaat ggtgctatat tttgtgttac 41520
 tactaacagt tatactaata caaatttagc taaagaaggc atatattcaa aaatttatac 41580
 agaatatata caagaaataa tatttaatat atataaaaaa aactataaat tatcttccgt 41640
 tgtaaaagaa tcagaagaat attctttaac aaataatttt gatgatataa tcaaattatc 41700
 aaatattaat aaatataaaa agacattatg tattggcgta tatgataaat attatataaa 41760
 gggtgataaa atatcaatct tggataacta caacgattca gaatatacat cattatacat 41820
 atatatagat caaaataata taataaaaaa cactaatgat gtattaataa cagaaaaatt 41880
 aacttatttt acagatatat taaaagaaga agaaataaaa aatataatta ttaaatcaac 41940
 tagtccaaaa agtattatat atatatat ttgatacgttt ttagactcta atataaatat 42000

acaatatgat cttaaatfff ttctaaatgt tacaaacact agaaatatat ttatagatat 42060
 gtcttataaa attaatatta tgacatctaa aaatcacata tcatttagat cttttaacat 42120
 agatgtaaat ttatgtaaat atttatcggt attgatatta ggatataatc atatttttaa 42180
 taaaatacaa aaacacgcta gacttaaaaa aattgatgag ctttatcctt cgagggtattg 42240
 tcaaaattat aaagatgtta aaagacaacc tgttttaata gattcgatag atgaaaatta 42300
 ttttaattaaa atatctgata aatattatgt gggtaaagaa gatactacaa ggacatatca 42360
 acacaaagga actaaaaaaaa tatttgatcc atacaaatac ggtgatgttt atatagatga 42420
 taatgggttta atatatcaat gttctagtat ttattattca aatatgggat ttttgaataa 42480
 tatatattta gctagtggag gaaaaacttg ttatccttgt tgttattcaa aacagaaaaa 42540
 tagagatgaa atattcgaat ctgctgttta taataaagaa attatttttag aagataaaat 42600
 aaatcccata atagttaatt atggaagaat tatattaagt aagaatgggt tatctaaatt 42660
 atcacctaaa ttaaataata ttttaaacgc taattcaaaa atagatattg ttaaacatac 42720
 taatagaata gatttttcag ataattatac aataataatg tcatatcaac caactattac 42780
 tataagaaat tttgatgaca tgtattatft tattataaac aataatgcta ttgttattaa 42840
 tgataatata gtttatactg ataaaagtat attaaaaatg aataataata atataaatgt 42900
 atttataata atacaaaata gaattcatca attaaaaaat attgataaac aatcaaaaata 42960
 tgatgatata gtagttaata aaatagatga taaaaaata aaaataatta aaaaatactt 43020
 taatataata tccaatatac gaaatccaat atctaataat ggaatttcta taacagatga 43080
 tgtttgtact atagatgggt aattaataga aaataaaaaat attaaatatt tttctgaata 43140
 taataatatt tctttaaaac ctaaaagtac tagcgaatat atagaaaagt attttaaaca 43200
 atattttgat actatatata ctaataatat tagattatft ataaaaatat ttataacgaa 43260
 aataatgcat agtataaaag aaacagacat tataaaaaaca gattatacta aattagaaga 43320
 aaaattaaat aatattacta ataaacaaat gtcactctgt atattgtcaa aaaaaagtat 43380
 ttaataatta attaaatata tattcaagat ctggattaat atttttaata cataatattt 43440
 ttgcaatatt ttgtttatga tttatattat aaggcaaadc tgaattatta gttatgtata 43500
 aaattatatt attatcattg tttggaatta tatattttga tttcaaactc atcatatttg 43560
 aatacaattc ttctacggga gtaattatac caataatadc attaggtata attaaattaa 43620
 ttcccaaatt aactttacat gttttatgtg gaggaatggg tatatttata ttgctagata 43680
 aatttataaa tttattatca atgcacgttg gtactgaatg tttttcatca gtattataaa 43740

```

ttaaaatttt atttttattt ttaaaatttat atatataata tgaaatataa taaataaaaat 43800
tattaatggtt attccatatac acattttataa taaacattttt tatataatat tgttatttttt 43860
attacatttat ttttcaataa ttctaattttt ttatttcacc aattgaaaaa aaactaacat 43920
atthttgtcta taatatttaa atgtatatac atthttatatt aatthttatat aatataaaaat 43980
atattttatg ttataattat ttatctttga ttgatgaaaa atctattaat gatcaggaat 44040
tatgtattag tgattacaaa attatattaa ataaaaaaaa atgtattcat gattataatg 44100
ataataaaaat agaattgtaga ttattttata aagaaattaa aaaatataaa actataaata 44160
acgaagattg tattagtaat tgtggaaatt ttgaaaatac tgcgtatcaa tgggtgtgtta 44220
ctaaatcatt taattgggat tattgtaata aaaatatatac aaaaactgga atthttatcat 44280
atagaacata taataaatat attgcttggt ctgataaatg tgacaataga ggtgataaat 44340
attattgggtg taatactata ggcaataatt gggcgtactg ttatcctaata aaaaaataa 44400
ttatttttaa ttatagaaat gaaaaaaata atgtgtgtgtc aagtccttgt gaaatatatt 44460
caaaaaatgt tgcataattgt tatgataaga acaaaaattg ggaaaaatgt tatttaaatac 44520
ctgaatataa aaatacttta aatgattaca ataataaatt tatatcacia tgtaaaatag 44580
gaaaatatac atccgatgga tataaacaat gtaaaaaaaaa ttatcattt atgtcatgtc 44640
cgttaaatgt agaatccgtt gctaaacatt acgaagataa caatccaagt ataataataa 44700
ggaatataga tccaaataat attattactt tatctaaaaa tccaataatt tcatatactg 44760
tactacctac ttataattat ttggatcta tacaataaaa tcttccatta atagtaagag 44820
caataattac caatcatata ttaagaaatc cgagagaaat agaaagattt acatcagata 44880
taaagctta ttttaataat atgaatccta atttagataa tataaattat gataaaaaag 44940
gatatttatt aggatataaa ttaggtggac ctattgaaaa ttataatata tttccacaag 45000
cgtgctcaca taatcgcgga agtatgacag tgtggcaata tatggaaata gatttatata 45060
actttttaat aaataatccc aatagatata tagaatatac tgccataatg aattatcgca 45120
cagatgatgg aatattaaat tatagaccta cttctgtgtc attaagaatt agattatatg 45180
ataataatat actcgttgat ataagtggaa gtcccataac atttattacg aattcattag 45240
aaaatatata ttataccaac aaccctgatc ataattgtga aatagaagat taatattgaa 45300
atthttataa ataaaaattaa aaatatataa aatgtcactt aataatatat gttatgaaca 45360
cattaaagac tcatattatt atggtctatt tgggtgatttt aaattagtta tagataaaac 45420

```

tacaggttgt tttaatgcta ctaaattatg taatttaggt ggtaaacaat atagagattg 45480
 gaaacgttta gaaaaatcta aagaacttat aaaaacatta ataaatgtca gacgcgagaa 45540
 ttcccgcgtc tgggaatata atataataag taataataat cacgaaatac ataaacaata 45600
 tactggatat tatgtatcaa aagatctaatt attagatatt gcatcttggg tagctcctga 45660
 attttattta aaatgtaatg atataattat aaattattat aataatgaat ttaaatcttt 45720
 atctaaagag gatattaata ataaaattaa agaagtagaa aataaatata ctaataataat 45780
 agtagaaaat gaaataacta ttaaacaaaa agatgataaa attgatgaat tgaataataa 45840
 gttagatatt atcataacaa ctaataaaat tttagaacaa aaatcaacta atttagaaaa 45900
 tattaataat aaattactta aattagcaga gaaacaaaac attaaattag atgaaataag 45960
 tgatgaatta gatgaaacaa actataaatt agatacatta actcaaacag ttgaggaaaa 46020
 tatattacct gatagaaata tacaacctaa tgatattaat ttaaacata acttagttat 46080
 atataaaaaa ataaataata taattaaaat aactagagct caaaataaat atataaataa 46140
 aattaagatt tcagaagata atataattat aaaagagtac gtaccgaatc ctatagattt 46200
 tattaatcgt atgaagttat attgtattga tttaaataaa aaaataaaat taagtcttag 46260
 aaaaaataat aaaaatatat catatgatga atttattgat atatataata taaataaaaa 46320
 atttgagata aaatataata atattatatt aaataatagt aatttagatg atgttatatt 46380
 gttattttaat aaattaaaag aagaacaata taattattga atttttataa ttaaaattaa 46440
 aaatatataa aatgtcttta attgatgtat gttatgaaca catcaaagac tcatattatt 46500
 atgggtttatt tgggtgatttt aaattagtta tagataaaac cacaggttgt tttaatgcta 46560
 ctaaattatg taatttatca ggaaaaagat ttagaaattg gattagatta gatagatcta 46620
 aacaattatt aaaatatatg gagaattacc gaagctcata tgtgagcgtt ggattttatg 46680
 aagttaaagg tgataataat aacaaaacat ctaaagaaat tacagggtcaa tatgtaccta 46740
 aagaagttat tttagatata tcatcgtgga tatctgtaga attttattta aaatgtaatg 46800
 atataattat aaattattat aataacgaat ttaaatattt atctaaagag gatattaata 46860
 ataaagttaa agaagtagaa aataaatata ctaattattat agaagaaaat gaaataacta 46920
 ttaaacaaaa agatgataaa attgacgaat tgatacaaat aaataaaaaga atcgaagaac 46980
 aaaatataaa attacttaaa ttagcagaga aacaaaacat taaattagat gaaataagtg 47040
 atgaattaga tgaaacaaac tataaattag atacattaac tcaaacagtt gaggaaaata 47100
 tattacctga tagaaatata caacctaatg atattaattt aaaacataac ttagttatat 47160

ataaaaaaat aaataatata attaaaaataa ctagagctca aaataaatat ataaaaataaa 47220
 ttaagatttc agaagataat ataattataa aagagtacgt accgaatcct atagatttta 47280
 ttaatcgat gaagttatat tgtattgatt taaataaaaa aataaaatta agtccttagaa 47340
 aaaataataa aaatatatca tatgatgaat ttattgatat atataatata aataaaaaat 47400
 ttgagataaa atataaatat attatattaa ataatagtaa tttagatgat gttatattgt 47460
 tatttaataa attaaaagaa gaacaatata attattaata actaatgtaa atattatata 47520
 atataaatgt taccaaaata ttggggaaga ggagcgtggg ttgttatttt tacaagaata 47580
 tattatacaa tttctacttt aaataaagaa aattatatac ataatggtga aaaattaaaa 47640
 ttaatattat atttgatatg tagtacatta ccatgcgaaa catgtgcagc tgaagctaaa 47700
 aaaaaaatat aaaaaataa tataatgtct gaattaaata ttaatagaat ttacattttt 47760
 tatatagaat ttataaatat atttcataat aataaaatag atagaaaaaa aataaaaaaca 47820
 tatgatactt ttaactatgt ataaataata acatggatgt taataaatat atatatgaat 47880
 ataataaacc actatattat acttattatg atttatgtag aaatatgaat gatgttattt 47940
 atgattataa taataatact attaaaaaat atatggatat attattatca caaatacaat 48000
 ttttatccaa cataaatatt aaaaaaatat gcaataatac taatggtata gttaacatat 48060
 tatatatggg atcttcaaaa gcatatcatt ttaatatatt aaatgaatta tataaaaatt 48120
 taactaatat tcagtgggat ttttatgata ttatagatcc gtgtatttagc gtagagagat 48180
 tgtcttataa tattattttt aataggaaac tttttaccga agatgatatt atagatttta 48240
 aagataaata tccactaata ttaatatatg attatgatga taaatctaac gttagagatt 48300
 tatttatatca ttataaatg caaaataata taataatata tttaaatccg acatattcgt 48360
 tggtaaaatt taaatatatg cctataaata aatggaataa ttcttttaatt gattatgaat 48420
 atattttcaac tgggtataaaa tattttacca caataaaatc attacatact agaaatatta 48480
 tagataataa aaatataatg acattaacat ttgatgagat agaacttgaa aattattacg 48540
 aaaaaatgaa ttactataat aattgttctg gatataacga tatatataat aatatttcag 48600
 gttatatatt aaataaatca aatttatatg acaataataa ttcagcttat aatatattaa 48660
 aaatatatga aaaaaatata ataaatacaa taaacgaaga taaaatattt agatcaaaag 48720
 aaaaaatat ttaactaaga aattctatca tataattata taataaaata ctttcatcta 48780
 aattattttt atttgtttca atataatatt tattttttatc attaactata ttatatattg 48840

```

aaaatggtac attgtgaata aaataaaatTT ctatTTTtAtc tTTtaataat tttattacat 48900
ctataataaa taaattaact atatcagatt cttcaaattt catttgtaaa tataatataa 48960
tagtatctgt taaatttatt tttttattaa acaatgataa tgattcttct ttatctaata 49020
aaatacaata tcttatatta tcattatatt taataatatt tttgatataa tattcattta 49080
catttaaacc atatttatta cttatTTTTa atatTTTtAtc aatcattTTa tatataatat 49140
ttattcaaat tatttaatat tttTTTaaTT tctattataa gatattTTTT attataTTTT 49200
gctatgTtat tattaaattt tattaaatat ataataTgt ttaattTTaa atcaattata 49260
TTTTtaacat gcgaaaaata aatatatggt aatattTTtAt tTatagattt tttcaataaa 49320
attatatatt gttctaaata tattaaatct ttacctatat tagattTTTaa tTcatctaca 49380
gaatctataa attcattaat tattattTTa tttttcattt tttttatatg atatgaatat 49440
ttaaattTat ttatattata atggaaacta tcattaataa acataataat atttaatagt 49500
aaaataaatt tttataaatt agtttcactt atattaatag tatatatTgg ttttttatta 49560
taaaaatata atattatcaa tataaatata aatattatta aaataaatat aacaggatcg 49620
aaaaatactc cccatgTTtg atttattTTTT atatcagtga catttgataa attttctgaa 49680
tttattactg tgcttgcgTt taaattgTtt atacaattat ttattaaatc aattttatta 49740
ttacctctag ttaacaatga tcctatgGtt ataatacaag attgtatatt acaattTTTT 49800
tttatattca tctgattggt tgTtaaccat ttttgaccac tataagagac agtacatggc 49860
gctaaccaac attctTTTtg acccaaaaact tcttcaacat ctgggtataaa ttcagtagga 49920
ggattataac aaaaacataa cgaattatta ctattatttt tacaccagtt tgacaacgaa 49980
tcatcacaat atcctggata 50000

```

<210> 25

<211> 50000

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 25

```

tccattttct ctcgcataca cacacatata atcacaatat aatttagtat gatctatact 60
acataattct gaatataatt ttaaagcaat atcaaTgtt ttagattggc tatacatcca 120
tctatagcaa tataaatctt ccggattTTg tctgcaaaaa ttttgattg ttacattaca 180

```

atgtggtggt	gtaaagttat	ttattaatgt	ttcgtgacaa	ccagatgttc	ttttaccagt	240
acaacattcc	cgcaaatcat	tttcatatat	tggatatcct	ctatatctta	ttttacattt	300
atttccaaca	aatgttctac	cttctaacca	ttctgaatta	ccatataata	tacttcccgg	360
cctaaatggt	aaactagtag	acggcgatcc	ttcgttaggt	attacataat	tatctaattc	420
gcttgataaa	ttagacaaaa	tattattatt	aaataataat	gcacattctg	ccaaagaatt	480
aaatggaggt	ccaatacaat	aatttatttc	atattcgctg	agattttcat	aagccgatct	540
tggtattcta	ttaatttggt	caaacatcgg	aactctaact	atgttattat	cacttaaacc	600
tattaataaa	tttttatttc	cattattatt	attctctggt	cttataaacg	atatacttac	660
tctaccaccc	atttacatta	ttattaattt	tgaaataata	taatataata	ttgataatat	720
attagtttta	gtgttataat	taatattaat	gtctactaac	actttatgta	taataatgcc	780
aataacaata	gatagtattg	atgtaaataa	tgacaatatt	aatatctgtg	atactaacad	840
aagtaacgta	tcaatagata	caattttaga	tgctattaat	gataatttag	attttaaaga	900
attaataaaa	gacgaaatta	gtaattaagt	ttttaaaggt	gaatctctac	taataaagta	960
tgttcaatgt	taataaaagt	attaactctg	acaaatgtat	tttaatatag	tattaactga	1020
cagctcgaat	attttttata	tatttattat	atatagattc	tatataatta	tacctaaaac	1080
ctgcgctagt	ttttaatcca	taatctacta	tttttattaa	atctataatt	ttatatatac	1140
tatgtggtat	atatttattt	ttattatttt	ttaattcatt	aataacacgt	ttattaataa	1200
tatttaattc	atttatttct	atatcattta	aagtattatt	aaaatcatat	ttgtataata	1260
ctattaatga	tattgtcata	ttgtcggtac	tttgtttata	aatacaatat	tttaatatat	1320
tttcagttat	aatagataaa	ttaacattaa	tttgtaaatt	atattcaacg	taattgcata	1380
attcattatt	atcaataaca	ttagatatac	catctgttat	aagtattaaa	aatttgcacg	1440
aattaatatc	cataattttt	atttctggta	tggatattat	tgcatTTTTA	tatggatttt	1500
cttttttttt	aaaattaaaa	tctccaaaac	atctagatat	atttatttga	ccgtttattc	1560
tactattaat	tatttgatta	ccacttttaa	gtattctaata	tctttctttt	ttattacatg	1620
gtttgaaatc	tgttgtttcg	tatataatat	cacgaccatt	atataatata	gcttttgaat	1680
caccacaatt	taataaaaact	atattattct	tagttaatat	aacacaaaact	accgtagatc	1740
cttgaacggt	actaagtaaa	atattttttt	gtatatTTTT	atcaaaaagat	ataaatatat	1800
tatttattat	ttttgatata	tatttataag	tgctagttaa	tttcagttta	cttatatttt	1860

```

ttgaaatata ttccaaaaaa taatcacgca tatatgacga aacacaatct ccaccatgac 1920
catcatataa accaacatat atatatttct gtttattatc ataatatata gaataataat 1980
cttccatatt ttttctatat ccttgcatg acatgttttg tatatgtata ttatgtatta 2040
tatgttctga atttatactt aatataggaa tgtttaattg attgcccatt taataattaa 2100
atattgataa ttagttaaat tatttatatt taattatttt tacattataa atggaagaag 2160
catttaaadc atttcccacg attaatgttg atgatttata tatcaatgca aatagttatt 2220
ctagaaaagt taaacacgtt ttaaataatt tacaaaaata atatgaaaaa aatccagaag 2280
aaacattaca atatttagaa agtttatctg ctggagctaa accacaaatt agaaaaaac 2340
caaaagtaaa taatacaaac aaagaaaaag ttaatgaatt agttggtgaa tatcaaatg 2400
atagtgaatt atattgtctt aaatgtaagt caaaaacagg taataaatca tcagcaaaag 2460
tatataatac tggtaaagct cttagattag aatgcgaatg taataaatgt ggaactacca 2520
aatcaacttt cacaaatgaa aaaaaattaa gtaattctaa aaaaataaaa taattattta 2580
tttatttgta ttacagttac aacaattata ataactata ttattaatat ttttttgtgt 2640
tataggatgt atataattat ctatgatata ttttgataa attattttat aatgtgattt 2700
atztatcaca ttattataaa ttactttatt tatggattct attttatcta gatgacaagt 2760
aaatatttta taattagata tataatataa taatatgaaa acataattat ctattttttt 2820
atatatatca aaatgtgttg gtattgttga taatttatct ttgttattta tagataatct 2880
taaatttata ataattattc ttggtatgat ttcaaagtac ttaataaat ttttgcatat 2940
attattatca atagtgtata ccagcctct tattatatat gatatatcat attttgggta 3000
attgattttt ttttttaata tttcgcttat tatatttata ttctcattta ttttttttg 3060
ttttatttct aaaataaatt tatatttaca catagcagca ttaatatata ttttttgttc 3120
atatagataa tacatagcta cataacaagg taataatggt ttagatttaa ataaatgtaa 3180
ttttgatata ttgttagtaa aaaatttatg tattttatgt tttgtatttt catctaattt 3240
atatattaat tttattatat tatcaataa atttttatat tgatatatat attctttatt 3300
aaagacaata aattccttac attcatcttc taatggtata ttaactatat tttcttctat 3360
attatctatt gttaaaaaat ctgacgggtc aatcatattt tatatataat ttgaattatt 3420
aatatataat aattcaaaaa tgatgaaata tctaattata tatataaaag aatgttgttt 3480
tttatgttat gatgattata ataataaatt taataatata attaacttta tctggattat 3540
atataaatat atttattgat gattgatatt attagaatat attataataa atggataaaa 3600

```

```

ttatatggat aataatttta tttattataa taatatattat gatattatta aaaattatag 3660
atgtgttatg taaatctgat acttttactc tagaatatga acggttataa tattattatc 3720
atatgatatt tttttaacaa tagtttgaca aatttgtaat tctttgttaa ataaacttct 3780
tggatctact tcaggaaatt ctttccaatc tataacttaaa ttaacgcac taaaattttt 3840
agcagcatcg gctattaatc tagatgggtc aataaaaatt atattatgaa gattaaatct 3900
atgtaaaaaa attgctgggt ttgaatatc tgatgttggc gtaactgcaa ataaattatc 3960
agattgaaaa tatgattcaa tatttacggg atcactgtta tattcagcta ttgattcatt 4020
agaactactt gttatagatc tgctaataat tcctaattct tttgataaaa aatctaatac 4080
aaaaacaaaa ggatcattta catatatatc tgatttttta gatttaatag atctcaaact 4140
accgtagaa gtattctcat ttgcattcca tataactcaat ggaataactaa cgtcagatat 4200
gtttattgta tgttttactt cgtgtattaa aatcttatct tcgttaggta tatatgttcc 4260
agatatttta ctaaattttt tagaaatatt ataatcattt gggttatttc ttctactgaa 4320
tgataatata tttgtatgat aatataaatc aaaaccttcc gggacattca ttatattaat 4380
ttcacaatta ttattaacat caaacacaat tttatcacac ggatcaattt ttttaaactt 4440
acatttatca ctaaactcct ttgatttaat aaagttttca tcatcagaaa taattaaaag 4500
atcttttaat aatttatcaa cgtatgtttt gataaaattt tcttctgttt ctggataatc 4560
gggatatgat ataaacatat ttctctgaa aatatcagat ttagaatacc ataatagatt 4620
agttatagat aaaaattcag gtgaataata attcttttta ttacttttgt gtgtagaata 4680
agttaattct tctatatatc tatgttttaa aggacttccg cacgtattat aaccagtaaa 4740
ttttatatat ggttgtagat caacatctga aatattttta agactatttt tcttatattt 4800
tacatcgggt aataaaatat ctgcaaattg tctaaatttt atttttattt gtaatttagt 4860
ttcagggaa aatctaaaac aagtctctggg attcatatta acattatcaa atataaacat 4920
tagaggaaaa tatacttctt tagatggaaa aataatatca tcagcacatt taccatattt 4980
aaatttacat aaatcagaat tattgcctac aaatctcgaa tattcttttt tcttctgtat 5040
aaaatccatt aaaaattcaa gccagtttt tctaattatt tcgttagttt tattatcatc 5100
gatagtttct ataatacatt cttegataag tttaggaatg aaataattct gaaacctaac 5160
accacctata ctttttattt caggcaaagt tatatttaat ccaaaattat tacagccttc 5220
taatttaata tctgttatag aagctactgc ataaccatct tgaaacgtac aaggacttga 5280

```

tacatatgtgt	gggatgttat	atttaccatt	tttagtttct	gttatataaa	tattaggcct	5340
atctgaatct	atattagttt	tactaaatgg	tataaacgtt	cttttcatat	ttatattaca	5400
taaattttta	atatttatct	ataatacatt	tgcatatatta	ttatttttat	aaaaaaatat	5460
atatatttta	gtaataacga	tagtttctat	aatatcttta	gataataata	aatttaattt	5520
ttcaaaaatta	ttataaattt	tttttttata	gtatttattt	tttatattat	atatttttat	5580
tacatttctt	aatataaatt	tatatctatt	gttaaaattt	ttctttacat	aagttattaa	5640
tgattcgtaa	aataccggag	aataacattt	tgacagcaaga	aaatctaata	tatattcggtg	5700
tgacacatatt	attttataat	ttttgttatt	ttcaataata	attaattgat	taccttctac	5760
tattatacat	tttattaact	tttttaattt	tattaatatt	gttattattt	tatatatagc	5820
cttatcatta	ttcgatatta	cattttttat	attgtattcc	agaataaaaat	ttattaattt	5880
aatagtcacat	atatcataca	taatgatata	attataatta	tttactaaaa	tttcaaaaata	5940
tatttttatga	agatattata	ttaattcttc	taacaccatt	attaaaaaca	tcaatattta	6000
tattatttaa	tttaatagct	acattatccc	acggaccata	taatataaaa	cctaaatttt	6060
tatttaattc	aaaataatgt	attccgtcag	gatcaaaatc	aatagggttcg	aaaatatatt	6120
ccattaattc	tttattttcg	cgtctttctt	ttatgtgtat	caatccatcg	catattgtat	6180
tagcatctgg	tcttattata	accgaagata	aacttcgggtt	aatggaaaaa	cctattatta	6240
tatcctttat	atttgaata	ttaatatcta	tgtaaaaata	taaaaatcct	ctttgttcta	6300
aaacttttat	attataattt	gtctcaatgt	attgatcggc	aatatataat	tttcttttat	6360
tatcagatat	attataatct	gtttttatcc	acctaaatat	aataaatttc	aaattatttg	6420
cattattatt	atttatagtt	atatgattta	tacttattat	actactataa	tgtataattt	6480
cataggattg	taatcttccg	taattaaatg	taaaactttt	agcagaaaat	aatctcctg	6540
tgtataatct	ttctccaact	attgcgtgat	ctcttccgtt	gatttcaatt	aaattatcat	6600
ttattaatat	attttgtata	ttatatatag	tatcattggt	attattaata	atattataat	6660
attctaataga	attaggatcc	attatttgta	tacaacattt	gcaaaatcta	gtagatatat	6720
tcaaattatc	ttcattttca	tattcgttta	aataacaaaa	actggatatag	tttgatgata	6780
ctacagaaaa	tccatttttt	ctacatctta	ttataccact	tacggttaat	atatcatagt	6840
aaactatatc	atcggttgga	taatcaatat	tattttctat	tggttgatat	aaatttaaat	6900
ttaatataga	attataatat	attgtgttaa	tattatttat	taaaaattta	atattaatag	6960
tactctttta	tttattaaaa	tgtgttaata	tttggcacat	tatttgtaat	atttgtaact	7020

tggttttatt	tcttgtaa	acgacata	ccttaatt	atctatct	attacatccg	taataattaa	7080
atccattata	attcatatta	ataaatatat	gtaataaatt	atcgctaaca	ggaattttta		7140
atatatacat	agcataaaat	atactatcta	aacattctga	tcctatagat	attgcacttg		7200
gtatcattgg	caatgaattt	gtaaaacttc	catcactata	ataacctggg	tttaaatttt		7260
ttaatgtatt	acatggaata	atttctaaat	cttctataaa	tacatttaat	gcattttgat		7320
aaattatatt	atttatatct	atgtttaatg	aatatttttt	atttatagtt	acgattataa		7380
tataacataa	acatttacta	tataattcag	atacattttt	atgtgattgt	aaaggatttt		7440
gtatccattt	taaaaattta	ataaataaat	tttttattat	atttagatct	ggatttttta		7500
tcatatatat	tgacatacat	agtgttctag	gtatacctac	tcgtgcatac	caattattta		7560
tgtctaaatc	tgatttatta	atattatata	gtatactaaa	atcattgatt	tttcctcgat		7620
ttattaaaac	tttatatgaa	aattctgatg	cagaaaataa	catatctttg	ggcgtgttaa		7680
aattattatt	ttgtatattt	aatatttttc	gatggattct	ttgtaaaaaa	tatttattat		7740
aattttcatt	gtaatcatta	ataattctat	aatatatcaa	taatattaaa	aatattatta		7800
taataacgca	catatataaa	aaattcattt	atataaaaat	ttatatatat	tttttgttta		7860
tatttataaa	aaattaatta	ataaaatatt	aatatattat	cgatgaaata	attattctaa		7920
tataatatct	aaaattaata	taatcaattc	ataataataa	ttattatatt	ctgtaaaaat		7980
attttcatct	aatctccaat	ttaatatgct	ctgttctctt	aaaatattat	aaaaataatc		8040
caatttacat	acttttatat	aatctaaatc	taattttaac	cacttatttt	gtaatctata		8100
tttgtaaata	ttttctatac	tattattttt	taattctatt	tccataaatt	taaaaaataa		8160
atcttttaca	tataatattc	tatttgtata	tttttccatt	ttatatttca	aatattgtta		8220
attaataaat	cattcgatat	gtttttataa	taataattaa	aatacttaca	tgaaaaaatt		8280
acttataaca	ttagaggtaa	agataaagtt	ggaaacacat	aatgtaaaat	attaattgaa		8340
aattagaaat	aggaatgata	ttagataaat	atttttaaata	taaaactaaa	ttatctacta		8400
atatatctga	tttattattt	tttataaaca	ggtgataaat	attgaaataa	gtgcaataaa		8460
aattaaatta	tggaataacc	ttaatagtaa	atagatatta	tttttttagt	tcagtatatt		8520
aggctctgca	aggtttagat	ttaaaatgat	gtaaaaatat	caataatgga	ttattaaaac		8580
ccgatttttag	tatttctatt	tatacacaat	aaacaaattg	aaaagaaata	tgaaatgtac		8640
aattgtaatt	ttattaaatt	atataaaaat	aataatatat	ttaacggcaa	ttataaaata		8700

```

aaaaatataa agaataatat attaaaaata gtattaaata aaacaatat ttataaaact 8760
atatattatt attagataat atatttaatg ctgtttgaca cggatgacta aattcaaaat 8820
atccactata tcctaactta ttaaacadat caataccaca ttgtgcagaa ttgctattat 8880
ttgtccatac tatatattca caaaattgtg atgcgggaac atctctttca gcagcttttc 8940
taaactctca aacatcacct attcctctaa gaataaattc tggtaaaaat gttgtttgat 9000
tcattctcat agcagcgtaa taatttccaa aatcataaca tctgtacgta aaagcatcat 9060
ttactaattg taatgatctt gctctacctc tggtcatttc tatttgtgtt ttctctaaaa 9120
ctaattgttt ccaactgcct atattttttt ttattcttct aaatttatct aactgaacca 9180
gaggttccca tctaaatgat tgtaaaataa aaaatatagt ggatattata ataaaaataa 9240
ttgttaatat atatcccata tatcctttta atgtttttta tttagatgct gccgatctat 9300
aataatctat atttttttca cctatttgta aaatagtatt atccatttaa taaaaaatta 9360
ttaaacttga tcacttttga tgcctatata atactcgata tatttgattt tatttttaga 9420
tttttttttt atatatataa cgataataaa agcattaata ataataaata atattattgg 9480
tattgatata ggcataatat aatatgtttt agtgcaaacg tttattatgt ttttgttata 9540
atagtaatca tcacacgaaa tattattatt agatatatct attataatat catatttagg 9600
taattttata taagataaag aattattttt tatatctaaa tattttaaat tgggaatttt 9660
aattatatat tctatattat aattttgtaa attattattg tctaaaaata aatttttaac 9720
tgaactattg ttaaatttaa aatttttaat tttgttatta ctcaagtata gattatctat 9780
attaacatta ttgattagat ttatatcgat tatattatta ttttctaaat ataaatatc 9840
tatttttaaa ttatacaatt ttaattttat gttttcttta ttattattat tataaatata 9900
aataaattta aaatatattat tattccagtt atttattaac ttctcacatt ctattgatat 9960
attatataat attttgggat tagtattttat gtgtatatta tttttatcat atctgtcaaa 10020
tgtattacat atatctttcc aattaatatc tttcgcatta atatattgta attttataaa 10080
caataaatat aatatataaa ataatatatt aatatccatt attatatact gtattgtaac 10140
aaacttaaat atttaaatta ttttttcaat ataacaatca atatatctca caacacattc 10200
ttccataaca tattcttctt ctataatcgc atattttata tctattttat tttttttatt 10260
acaaaatatg ttattaatgt gaaaattaaa aatatttaca attatcaatg cttttaattt 10320
catgataata ttacacatat ataatatata tatatatata taatatatta attaaaattc 10380
aaaaattata tatgaaatat tatattttatt tgtaatcgat actattttga aaatataatt 10440

```

aataatatta aaaaaaaaaat gtattttaat attttaaatg gattattatg gaaatattat 10500
attataaaaa gaaaaaaata tattttatgat atgttagaat atttattatt aattttgttt 10560
tttacattac tatatagttt taaaaaaaaat ataaaatatt atgataatga tttgaataat 10620
ataaataaaa ttaataataa taaaaatatt atatattatc caaaaagtaa tatatctata 10680
aaaattatag aaaatgtagc caaagaatta aaaataaata aatattatgg ttcaagcaac 10740
gaaaatgaaa taattaattt tattgatact aatgaaacaa tatttatttt atttaataat 10800
acatgtgaaa acttattata tactataaga ttttaataata atgaaaataa cgatagatta 10860
ttaattaata tacaatgggt aattaatatg aattatttaa gattgttatc aaataaaaaat 10920
ataaacattg atatagatat aaatgaatac atataataaaa attttaacac aaatatatta 10980
ttttatacat attattcgat attaattatt gcatttatat catttatatt aaaaaataac 11040
aacgacaata atgatacctat gttcaaaaata ataaaagtgc caaaaatatt aatatatata 11100
tccaatttta tatgttcaat accatttggg attatttatt cagtatttgg tacaataata 11160
ttaacaatat cagaagatcc gttaataaat aataataata atattataat gtttctaata 11220
ttattaatat attttatttc cgtaatttct atggcttatt tgtgtaattt tttcatatta 11280
ttaatataca aatataaaaat atttggttatt atgtgtgtgt atgtattaac tattattcct 11340
attacattat ataataattt aaattcagat ataaatatat ttatagggtt aattccacac 11400
attcctttat attggatttt tgaccaatta aattatgtag aaaaacaaaa taaaagttta 11460
acatttaata atattaatat atcttatagt atatatagta aatctatctt gatatctatt 11520
atatatttaa ttttgcaatc atttatatat atatctataa tacatataat taaattaata 11580
tataaaatat gtaaaaaata tatgaaaatg aaatatatat atattataaa tgaaaataat 11640
aattatatgt tagaaacaga aaataatgat tattatgtta aaatacaaaa catatataaa 11700
tattatgata ataattttat tttgaataat atatgtttgg atataattaa aaataatata 11760
acagtattgt taggaaacaa tagtgctgga aaaagtactt tattatctat tatattcgga 11820
ttaataaaac ctaataaggg taaaatatta actaataata tcaaaatagg ttattgtcca 11880
caaaataata taaattttac agattttact gtaaaagaaa atatatatatt atttaatata 11940
ttgagaggat taagttcggt acaatcaaaa ataaaaacaa atgaaataat tatttatcta 12000
aaattacatg atatagaaaa ttgtataata acagaattat ctgaatgttc aaaacgtaaa 12060
ttacaattag ctttttcggt aatagatgat tctgatttta tattaatcga tgaaccacaa 12120

cataatatag atttaaaaaag taaacaagaa atatgggatt taatatcatt attaaaaaga 12180
aataaaaacta tattaattac tacacattgt atagatgaag ttgaattatt agctgataac 12240
ttaattatat taaacaacgg aaatgttaaa tataattcga cattatttaa tattaaaaaa 12300
gatgcaaag taacttataa attatcaata cataataatt ctaccgacga taaaataaaa 12360
aatataatta ttaatagtgg atttataata ttaaataatta ataaaataga tgaaaataat 12420
tcaatatata atatttataa aacagaaaat tctaattttt taaaattggt tgaattatta 12480
gaaaatgtta attgcatat aatatatttt aaatcgaata ctttaaataga tattttatat 12540
aaattatggt ctgaagatat tataattccc gatgatagtt atataaataa tttaaattat 12600
aatgatatgt ttatatctga aataatggga ttaataaaaa ttatgagaca atttatagaa 12660
ttatttaaaa gaaatattta ttatataaga aagaatatat tattatttgt tattataaat 12720
tttattttat ctatattaat tgtttatgtg ggtattgtat atattaaaaa gtatgaaaat 12780
ttatattttat ataattttgt aatcataaat cacaacatag ataattttat taataatagt 12840
aattattttat tagatataaa acataatagt acatataata aaataactta tataccttta 12900
tttaaataatt ctggatcaat agccattaac attatttcaa acataatagc aaaaataaat 12960
ataccaaata tagaaaaaga cataataaca actatatttt atccaatgta tcaaaaataaa 13020
actagtattt taactaattt atttatttca attatattac aattatattg tattaattat 13080
aataaattaa ttaaaaaaga taatataaac aaaacaagaa aacaacacat tataaatgga 13140
tgtaatcctg aattacattg gataacaaca ttattattta atatgatatt attttctata 13200
tcagtaatac caataatatt atatatgtta aatattaaat cattttttga ttttaattata 13260
ttatatttta tattgataat taatgcatta tcattttatgc ttttttcgat tataatatta 13320
atgtttgata atcaatccga taaaataata ttaatttttag tatttatatt aggcatacta 13380
ttacctatat ataaaattaa atataaaaat attatttttag atatattatc atatataatt 13440
atacctagtt gtatatcaat gtctataatt gaatatttaa atacacacaa actaaattat 13500
ataatttcga ttataatata aattttatta tatttaattt taattatatt aatagaaaga 13560
ggtttaattg atataatata taataagata attaatttaa aatataatag aaaaaataat 13620
aattattttg aattacaaaa tataaacaaa tatactgact ataattcatc attaattatg 13680
tcaaatgttt ataaaatata taataataaa ttggcattaa ataataaaa ttttaaaata 13740
tcagaaggaa aatgttttgg aattattggt ggtaacggat gtggaaaaag tactattttt 13800
aaaatattat ctggcgaaga atgtgttaca aaaggaaata tttatatagg atgttctaac 13860

```

agatcatgga tattaaaaatc aaattatctt aaaaaaatat cttattgttc tcaatttttt 13920
ggcatagata cattttttaac aggaagacaa aattttaaatt taattatgat attaaatggg 13980
tttagtgata aacatataca atattatatt aatatttggt taaaattatt aaatatagaa 14040
aaatatgcag ataaagcagt ttatacatat agtactggta ttataaaacg tttaaaaata 14100
gcaatgtcat tagcacctag atcaatttta actttaatgg atgaaccaac gtcaggaata 14160
gatattgtat ccaaacaaat tatatggaaa actataaaat atattattaa ttataattat 14220
tataattatt acaaacattc catttttaatt tcatcaaata atatagaaga aatagaatat 14280
ttgtgctcta atgtgattat cctagattct ggaaatataa tgtataacga tactttggaa 14340
aatattaaaa atatacatag tactaaaata attaatatta aattattaca ttatgataat 14400
aacaaaattt gtaaaataaa aaataaatta aaaaaataag gttttatggt aaaatcagat 14460
aataaattta aattaacatt ttgtgtatct aaaaatatta atttgaaata tagtgaatta 14520
tttaaaatat tatatatatt aaagaataat tattcagata taattgatca atatgatata 14580
agtgatacaa atatagaaca attattttca taaattatta ttatctatgt aaacaaaaac 14640
caaaaactgc tgaacaagct ccactacaac attcataatt attattacaa ttatgtccat 14700
tttcagtaca catcataaca tattcagata ctaataataa taaaaaagta ataattttta 14760
tactataatt cattttataaa aaatatatta acaattaaaa atattttttt tataattttt 14820
atattttaat tggaatacga taaaatataa tgtattttat attatttatc ttattatcat 14880
ttactaatct atcttaaaat aaaaatttaa cttattattt aatatatagt attttattta 14940
ataatcttct aaataataag aaaataatat aggaaaatta ttttttttaa tatgtattat 15000
tataatatca ttaattaaac ttaataaaat ttttgattta ttatcttcgt tattgtttat 15060
ttcattcttt attataaaat atatccatat ccacaaatgat ataggaaaat acgaatcata 15120
tgtataaaaa ttattatcca ttatatcata tatattgtta aatgtattaa tttttatatt 15180
aaaattataa taatataatt cgtcaatgat atatttatta caatatataa aaatattttt 15240
tgtaataatt ttaataata attgcaattc attatctaaa atacataaaa tattatagtt 15300
atattctttt gataataaac attttatatt atttaattct tcattatata atttatcttc 15360
aatatatgat tcataatttt tgtaatatct aattatcggg gttttaaaat aaaattttaa 15420
ttcaattact ttatatgcta gagaaaaatg ttccatatta ttgtatttgt ttgattctaa 15480
acatctttca ataaatttat gtgttggtat ataattctaaa atttttattt tattttcatc 15540

```

ccataacata taatcataac ttaaattaag atattttata gcatatgaat attctaaagg 15600
 gggttaaatat ttgcaatca taaagtgtat ttcagtaggt aaacgggttaa aaatattatt 15660
 atttataata tttttttttt tttttttttt ccataaaattt cttaaattcca tttttataaa 15720
 aataataatt aatatttttaa atatataatt ttataattat atttttatagg taacttacta 15780
 tttttccatt ttaaaatatt ttttttttca acccataata taatttttatt taaatcagat 15840
 tgtatattat ttaatatata ttttcttggt atgggttcgt ttttttgaat attattttatt 15900
 attttatcta ttttatcttt tatattattt ctatctatta ttataattttt atttaaatta 15960
 gtatatatat ctttataatt taatatatca ttatctaatt taaaaaatatc atgatttgtgt 16020
 agaataatat taatacatct ataataacat tcttctgata tccatattga tatacctaatt 16080
 aaaatatggt cgctaacata taatccattt aacgaacttt ctttattatt attgattata 16140
 gaaacatgat cattaatttc ttttattttt aaatatttta tagtataatc ataattttct 16200
 tccaaccata tgtgaatatt tttttcataa atatcacata ccctagatgc attatataaa 16260
 ttttaattttt tggtatatat taaattaaaa tcatttatat gtaaacacca ataattattt 16320
 tttatattgt aatttatgat atgcgtattc attatataat atatatataa aatttcatat 16380
 taaatttcta aatatttttag attatcaata ttgttaaaat aaattttctag tttatgattt 16440
 aatatttatat ttccgtaatt aacatcaaaa taccatattt ttctattttt ataataact 16500
 gtattatcat aaaatggtaa aacagaaggt attgcattta tatatacatc acttaaattt 16560
 tctactttat gtatattata tttattgcaa ttattataaa aatctttatt acatacacga 16620
 ggtgttcccg ttgtatataa tataatttct tttttattta aaatattaaa aatatcataa 16680
 gctgctattg ataatatcc gccctctaaa ctatgacctt atgcaaatat tttatttggt 16740
 gataaagtca ttaataaatt tagtaatggc ttttgtattt tactatatat ttcacaaaat 16800
 cctttatgac atttcatatc acagttatct attttaactt gtgaaattct aagatcgtgt 16860
 tcaaattcat tatatgttaa tgttcctctt ataacaatcc ataaattatt atatctatct 16920
 aatattaatt ttattatttt ttttttatta taacttatat aatatatttt catataatca 16980
 attgaatgta taataatggt atttgtaatt tctgtattaa aatctaacaa tatttttaatt 17040
 aaatatttta aaacattagg attaaattta tctgtatata attcacttgg ataatttaca 17100
 ttatctatat ttatttcaat gggaatattt tcatttaata tttcgtatat tcttctttta 17160
 atatatataa ccacataata aaatattata aacataaaaag ctaataaaac aattatccat 17220
 attaatattt caaatattgt catttattat ttattatatg ttagtaaata aaataaataa 17280

```

tttatatatac tactgtttct atatcatcgt cttctatatt atttctagca catatttggt 17340
ggattattat ttttttacat tgataataat ctattatata ttctctaaac aaataattac 17400
tatcaattat tttttttttt aaattttcat gagaaatttg taaaaataaa ggataattat 17460
cacaatcaag atattctatt atttcaatcg aaaaagggaa catatataaa attctattta 17520
taatatTTTT attattaata ttataattta ttttaatgtg ttttataattt gttgaactta 17580
aatcaataat aatattatta aattcataat ttatttcac ttcaacatgc atattattaa 17640
tttcaaattt atataaattt ttttaattttt ttatataaatt aatatttttc aataaacata 17700
tatctgatat tataatatga tttatagtat ctggcatatt tattttgtta atattgtatt 17760
cgttgtgtgt atctaataatt aattttttta aattttttta attattttaa catttgaaat 17820
tgtatgacga aagactatat tttgttgaaa taaataatat tgtttcgact gaataatttt 17880
tttgtgtaaa taaatattca acaacacatt cgtctaatat tttttttttt aattgcaaat 17940
cagatatata ataataatta tttatatttt tattgttttt aatatgaata aattctaaag 18000
ataatggtaa ttgaatttct atatcattat tattcatatt aaaatcaatt attaatTTTT 18060
gtaacgatgt atttttttaa taaatatttg aatcaattat tatatctggt aaatctaaaa 18120
attttaaatt ttgaaaata tttagattaa taattgacaa tttttcagga taattaatat 18180
taactgaaca attccatttt tctaaatttg aaaattgttg gattttatat attatatttt 18240
caatgttcga attataaata tctaaatatt ctatagtttt tggatttcca tctaacgatg 18300
ctatataact attattgtat gatataattt atctttttta attagtaaatt ttttctaaaa 18360
attcataatt attaatattt atacattcca ttattaattc ttcgattggt tcagataaat 18420
aatcagataa attatttatc gaattatgcy atatatttaa tttttttaa ttttttaatc 18480
tttcgataaa ttcataattt tcgatagaac atatagaaca atctaacact tcgatagttt 18540
ttggtaataa tatttccatt atattacaaa actcattatt tgaaatattc aaattaatca 18600
aattttctaa ataatgtaaa aaatttacat tatctatata taaatctgaa atatttaata 18660
tttttataca ttttgggata tgatataata tattattatt attatgtaat atatgcaatt 18720
cttctaaatt ttgtaaatct tttaaaattt cataatctat aatatcttca catttatcta 18780
tgtataattt ttttaattata tcatatttta taatatgttg tacttttagaa aatactattt 18840
tttcatctgt taaattattt aaatattctt gagcttcttc tttattcatt ttgaaaagta 18900
atattgaata ttatgttata ttttttcatt tcacaaaaat aaatttattt acaagatgaa 18960

```

taaacaaaag tataaaacttt aaataacgac attatTTTTT taatatcatc attggtatat 19020
 atatTTTTat catttttaat atcattataa aactTTTTtag ttgattttct taaaaaatta 19080
 gataaaactt ctacagattt atcagaatta tatttaaata tatcatcaaa ttacaaaaca 19140
 tctgataata taaaattata catagcaaaa tcatcaatta ttttatctgt tattatatat 19200
 tcttctaacc attcagtcac tgtagcatta tataaaactg atatTTTTatc atctgaaatt 19260
 ttgaaaattt tatatgtaat tccgggttga atattataaa ttaaattagg attttcattt 19320
 aatctatttg ttatttcgtc tccgtcaaga caagttatta ttacttttgt tccatcgttt 19380
 gataaatttt ttagtTTTaa taatatcata tcttttgtat tgttattgta agaataatga 19440
 atagctaatt gccactctat aactccaaaa tattgtattt tgtgatgtgt cataaattta 19500
 ttttttattt cattttcata attatcattt aatatagaca tgttcaaact atcaaattta 19560
 tatatactag cttgggcatt tgatatagtt tgtaattttt tatatctatc tcttgcttct 19620
 tttatagcaa aaatatcagg atctgttctt aacattcctg ttattccgac ataataatat 19680
 ttagttaaat ctctctctt tcttatatct atacttaaaa catatctatt tggtaaagtt 19740
 gttactaatt ttgatatagc catcgatata ccattagttt ttaaataatt tgttaatata 19800
 tttatagatg ttctaatagt attattcata aaatatttat taacttcttt atttaataat 19860
 aatttggatc tgtgtggatt attatctatt acatttatag tttcatttaa agacattaaa 19920
 taatcaatat tataatttga tggaaattct tctggaatgt gtttggatgt taatataaca 19980
 tctagattat tgccattata attttgtcta tagaaattat tagttttatc gattcttaat 20040
 ccaataattt tagattctaa aaatgaatat tctacaatac accatatggg cgataacatt 20100
 tttttaggac caaatttatt attattatta aaaattaata agttaacata attattatat 20160
 tctataattt cgttcttttc ttcgtatttt aaaatttctg taaaattttt attatcatat 20220
 tgatataatg taaaagtatt atataattta ttatcattgt gtaatatata tgttcctcta 20280
 taagtgtcca atttacatat aacatctaca gtattatcta ttttaaattt ataacttttt 20340
 ttagaatcat tatctgtaat atctagtaat acaataccat cgtatatatt tttaaatgaa 20400
 ctattttcta ttgatttata aaattttagt acattttagt ttacgttatt ttcgtcaaat 20460
 tttaaagtta atttgttttc aaatttaatt tgcataattg gtttatgaca caataaatta 20520
 tcattataat attgtatttg cttatatcta tctagaatat tatttattat ttttttatta 20580
 ttataagata attttgaaaa ataaaatgga tatatttttt taacattatc taccttaatg 20640
 tattctccca tacctatcat ttgtatattt ttatctatgt tacatgaaaa atttttatat 20700

accatatcat atattatgat attacaaatt ccattcataa cattaaattc tacaacatct 20760
 ccatcaattt taatagccat aatatatgat tctttatcaa ttgtatttaa tttattatat 20820
 tgtatcatat gtgtttttat tttaggttta ttttttattg taactaaact tatattagat 20880
 atatTTTTgc ttttatatat atattcaaaa gattttacta aattatcata aagtacatta 20940
 ttatccaatt ttgttttaga tagtacttct atttctaaat aatatgttat attttttcta 21000
 tatgtttcta tatcattgaa atgtgtactt aataataatt tatttgacga taatgggtcca 21060
 atgtttgatt ttattttaaa ttcaactttt attaaatcat ttataattat atataattgc 21120
 gaaacaaata atacatttat tttatccaat atatcattta ataacggtaa ttctatatca 21180
 ttatcttgat attcagtatt atgtctcaat aaaatatatt catttttatt aatatttatt 21240
 ttatcttctg atattatagt tttcttttcc caattattag taagtttatc taaaaaatat 21300
 gaatttgcta tttcaaaagt aggataatca tatttatatt tttgtcttaa tttagacttt 21360
 ttgttagcaa atttaagtac atattctaaa tatgtttttt ttttagattc attattatca 21420
 gtataaatat tagataaaat tcttaaatct ggatttatgt atgtaaaattc tatttcatta 21480
 ttaacatttg gattactatc aaaattaata ttactataaa attttataca atcattaata 21540
 atatcagaaa cgtcgataga cattatatat ataataaatg atattttatt atatatatt 21600
 atttttttta ataatattta tttttatgta tataattgta ataatttatt attataatat 21660
 ttcatattta ccagaattta taccagatca aataataaga caaatgaag gtttggtgga 21720
 catatcacat tttataagaa taagagaaga tattaataga tatatattag atataaatac 21780
 attagatgct aatataatta atataaagca agaaattaat agattagaaa atactatcga 21840
 aattcaacaa ttgactataa gaacattaag agatgaattg cgtaaaattg aagaagctat 21900
 cgacgatcaa ataaatttag aaataggaca agtagattta ccaagtatat taatgccctt 21960
 gtatatTTta ttagaaacag acacatatat aaaatattat atttataaaa atgtattaca 22020
 atttacatat aaatttattt atttaacaca gttgaatata agaaaaaaca caaatgtaac 22080
 aaaaactact ttactattaa ataatttaaa tttacaaaat atatatgtaa ataaaataaa 22140
 tacttatatg tatgataaaa tatctatcga tatatataaa tttatacagt tattaaattt 22200
 atataattcc attagaaatg tttagaaatt aacataatta ccaattattt tatatataat 22260
 ttgtaataat atatctataa atggatactc aggaacagat atattattac taataaaatt 22320
 tttagtagct ttgcattttg tttcgatata atcttctgtt atttcttttg atatgtcgat 22380

```

aaaaatattt aaatttaaag tactaactag aatTTTTtctg atacctgaaa aaattaatct 22440
tataactgta ttactaatat cataagaatt tttttttatt ttaatagttt cgataatatc 22500
atacatttct tcaatttctt ttatatccaa gatttcaaaa tctattaatg gtagtgatat 22560
tcctaagggt ttggcataat tgataattac atacttttta ttaataagtt cattaccaca 22620
catatttaat tttttcatta attcgtttta attttctgac ttttccatag attttacttt 22680
tttttttaat tcagaatttt cattatttaa tttttttatt atttcagttt ttgataaatc 22740
tttaattgta tcctgatttg gttctataac attaattaca ttctttaatt tttcattaac 22800
gttattattt tcaataatat taatttctgg catataatca gtaaaatatg aggatttttt 22860
tgacggaatg atattatgat cctcgattga tttttttatt tcattattat taacactatc 22920
atctattaat atattatttt ccatacatc ttcttcatat aatttactta ttcctatgtc 22980
attattaata ctactacaat tacttattaa atcttcttga cattcttcaa caatagaaaa 23040
ttcatcgtta tttaaataat tatataacat tttataattt tcaatctttg taggaaataa 23100
atgtttttgt atttttccgg gataattttc attattatat atatctatta cattattatc 23160
ttcaactaat ttgatacat gcatttattt agtttttttt ttatttaaatt gagaaataat 23220
aaagaaaagt atatgaatca ttttacggat tttataattc gtaatttacc atttagaaat 23280
ttaattgatt cgatgaaaga aaatattatt attaataatg aaacatataa aatagaagaa 23340
ttatttaaatt atatttatta tcatccacta gatttattaa caattagaga cattagtaat 23400
gcagatagaa aagatgaata tgtaaaca tttgtaaata atttatatct tagatatgca 23460
tataacgaaa tggattttat aaaaaataat ataagatatg acgataaagt atattctatt 23520
ataaacgaaa ttaattattt tccagaacat acttcggaat ttttaaaata tagattatca 23580
cactatgaat cagaatcaag aatcagagga ggaagagtag taacttttag cgggtgttct 23640
gataatgggt atgggtattt attaatgcaa tcagaccctt catctaagta tatatgggca 23700
atagtagata actatttaat gattgataat gaagataaat ttgattttta taccataat 23760
attccattta ttaattattt tctaaaatta tattataata acatcacaaa aaaatatatt 23820
attttagatc ctagtaatcc tgaagaaaat aaagatgtac ctaacgctaa tttaatcgac 23880
gaaagtttta aaaataaata taataatttt acaaagaaat tatcatattt tgatatatca 23940
aatagtagat ataattctat aaatgatgtg ggtgatttta ataattattt agatatcaat 24000
actaataaaa atattattga aaattatgat gtaattatta ataattattt aaaatcaata 24060
tatctatata acataatgga tacaatgta gaagatatat taaatataat aatgaacgat 24120

```

```

acaaattatt tattattgaa tgaaatatat agtgaatatt taccaaactc aagcaaatta 24180
tatgttttag tgggattacg tcgcattata tatgaaaaaa gcaaacaaaa taaaaatatt 24240
agcaatttat atatgttaga ttcatttgta agtatattat tatattttatt agaaagatat 24300
tacgaaaatg atataaccac acttaatgaa tctaaaagat taataaaaca atattataaa 24360
gataatttaa attcaaaaaa tagcgttaat ttggattcta taaatattat taaagaaaat 24420
atcaataata atattattaa tataacatta gatgaagatg aacaatcaag atataattta 24480
ataatagcca caaaccaga aataatagta aattatgcaa gtagaaatta ttttaacatc 24540
agtagtaacg aagataacac atcaaagtgt tataaaaaaag caatggcatt tttcataaat 24600
aattttattg aaaataatat aactaacgaa aatataataa ataattttatc acaagtttat 24660
actcaaaata cagattttat taatattact tatgatgatc taaataattt aaaaataaaa 24720
tatattaata attataatat aaatttagat attaaaaaaa ttattaatga caatctagaa 24780
ataattagaa tttataaaga taatgtttta tatgacacta atattaaaat gaattataaa 24840
tcatttatat cactattacc caccatatac tatattattt tttataatca acctataaat 24900
agaaaaatat atagaaaagc tataattcaa gaacctccaa ttgaagaaga gatctcaact 24960
gaaactacaa aaagagctag aagagtgaga tttaatccat ttaatgtcga agaaacaata 25020
atagaacca agagtgtttt tgtaataaaa agtaaaaaatt atttatatga tacattattt 25080
tggtctggca tatctataga tgattttaat aaatttccat tatacattaa aactattatc 25140
ttggatagtt gtcttatttt aggaagacaa ataaacgatg atgggtcatc tacttgcggt 25200
ttatatcatg atattaataa taacgatggt acaaaaatat gtataatacc ttatccttat 25260
acagcaaaca gaactatgta tgatgttttt aaacaagttt cagataaatt aagatctatg 25320
tactcatatc ctgtaaatta taatataaat aataatgaaa aacattttaa tttatcaaaa 25380
aaaggaaatt ataaatttat gaataaaacta gcagaatgta aagatattaa agatttaata 25440
caattttatg ttatggtaag agatacagat ccaggtcatt ctgaaatatc aataccacca 25500
aaccaagaat tatatttagc aataacttta ttagatttat tgggattttc tcctacttta 25560
tcaagaagaa atactagtat tggtttttca tattacattc aaacagatag acaagtatct 25620
gctcgtaatt tgatatatat attatcaaga aactaccagc atatggtaaa aagtaaggaa 25680
ttatcagatg tagtaattaa tatattgtcg ccaatacttg catatttaag atatgtatta 25740
aattattata gaacaaataa tacaacatta acagctggat ctaataatgc aggtcatgat 25800

```

tgttgtattc ctattaaatc aaatccttta gatttactta ttaatataga tacatctttt 25860
 actgattccg acaatatatt agatataatg aatagagata tgtttaattt ggataatgat 25920
 atatttagac aagtaatata aaataatatt tatagcgctg gtagcggtga tattgtcgat 25980
 attataactg ataatatctc ccaaaacatt tatatgaaaa caaacataat tgataaaatg 26040
 tatgataaaa tttttgctgg tgaaagtatt agcgatatat tggatatata gtttgatgaa 26100
 gatattaatg ataattttta ttacaatgat gtaaatatga ttactaatga tttaatgaaa 26160
 aaactaagaa aattattaaa aaaaacaact attaataatt tagaagacaa tgctatgata 26220
 ttaaagtcac aaatgttatc atctattaat aatgttttta atcgttattc ttgtatggaa 26280
 aaaataccaa cacaatatct tataaatatt agaacattat taaaacaata tagtaatgaa 26340
 aatataaaaa ttgacgaaga tttaaaaaat aatatccaaa caataattag taatatccat 26400
 agtaatacta aagatataat taaaattatt accactttta gtgctggtat tgatttagtt 26460
 agagcattaa aaagatctaa tgcaaatgta gaaaataaaa caataaatct tgaatttcta 26520
 aaaaaattat gtgatatttg taaagatagt tttataaat ataatagaaa taatgatata 26580
 gtatataaaa atttactaaa agatgtattt aataatgata atgaaattaa taatgatagt 26640
 gtgtttgata catgttaata aaattattta ttattatcag atttttcttt taaatctttt 26700
 ttaactaaat cgtttaattt attaataata acactcggag atatttcac ttcgtaattt 26760
 gattgttctt catctacatt ttctttttta ggattaggaa attcggcgac taattttaca 26820
 aaccaagata tcttagttct taaaatattt tttagcatct ttctaaatgt tattttatta 26880
 ggcaatacta atccattaac tttaaatggt tttataaatt ttttaacatc ttcgtccata 26940
 tctttaaaat tattaaagat tgtgtctatg ttaatcaaac atttagtatc tccgcaaata 27000
 aaattaatag tagaatattt atttctcttt aaatatattt taaaatctcc gttaacataa 27060
 tcatgattta tagatgtgtc tgaatgttta ctaataccgc tatatacttc atcaaagggt 27120
 ttaaatgttt caccatcatc agtataaaca gacaaaattta atttattatg cacacattcg 27180
 ataactttat cttaaattatg atgatttttt accgacacac atacatagtt atcataacca 27240
 taattttttt tactttttatc taaagccatt ataagcacat tccaccaat tcttgatgga 27300
 actaatgcat attgttgatg ttcgacatta acaacaaaag tacaataatt atttgaaaac 27360
 ttacatttat ttaatttaag aagatttctt atagaatgat caatacaatt attagtatta 27420
 cacacaatac aatgaacgca tgttttaata tcgtcacata ttttacaatc cattcttttt 27480
 tccatttcac ttaatatctc tataatatga ttgaatatgg ttttaggtga aatatctttt 27540

```

tggttcagata gtttttagttc agacattttt tggttcagtaa tttgttgttc agtcattttt 27600
atattaatta ttttaataatt atttattatt aatattaata tttcaaaaat ataaaattat 27660
taatgtttgt ataatatattt tattttttat tattttattt caaaaattat aattatatac 27720
taataaataa tgacaagcgg attaatagta ggttcaataa tcaccggagt gttaatatta 27780
tatgttgggtg ttttaatagg tattatttgg ttatctatta tgccatatta tcaagtagaa 27840
agttttgata ttaactctcc aggatattct aaaattacaa taccaccaca gcaattagaa 27900
aaacaattaa taatggaaaa accacaagaa aatataatta ataatgatta tgatccttta 27960
atatattcaa ctaaacatat tcaaaataac gatagtaact taaattgtaa caataatata 28020
atagtaaaga ataaaaaaaa tagaatcaaa atgaattgtg acgaatttaa tgaattatat 28080
tgtaaatcat cgttaaattg taataatact tgttgtgatg atactaattt atatatattca 28140
atacattata ctgatagatt accattaaaa cacgcagttc ataataataa tttagctaata 28200
atgaaaaaaaa cagacattct atttataaat aatgctaata ttaaacacga aaataaaatt 28260
attgattatc gtgaagataa atcattaaat tttccaagaa ttaatattga taatgataat 28320
ttacacacac aatcagaatt atctggatat tatacatatt ctctgtatat agaatcagat 28380
tgttctcaga tgtttattgg tgttagcaca gattctatat ttatgtcaga tccttctgct 28440
agatcagaaa tatatgataa aaaaactgat tatgatggat attttatttc tataaccagtt 28500
agaatagttt ctggtcaatt tgctggaaac aaattaagat taataaacat ttataaaatg 28560
tatgatccaa tatataaata tgttagtata gaaacattta aaataatata atatatatttc 28620
gattttatat ataataaatt ctctgacgat attttaataa ttggtggata tttcggttta 28680
aggaacgaat taatacaatt agctatgaat aaatcgaaat taaatgaaaa actatcatta 28740
ttccatatac ataacatgtc aactgtaaat aattttgaag gatgtagtaa cccagatgct 28800
atattgatag ataaaaaatt aataaataat tgtaaagtta aagttataac taacgatccg 28860
tggttttatg ataataataa tcattatata ttaactgtta tattagaaaa ttttaaagat 28920
aaaaattatg aaaattctaa agaagtcgct agagcaaatt ggaatagatt acataataaa 28980
aataatagta tatatccacc acaatatgaa atacctattg attatgtaaa tgtagaatca 29040
gatgaatata atataagaaa taatcctgct aaaataatta ctgaatagta tttataaata 29100
tagaattata agatggtggt ttattttttt taattatttt attttgtctt atgattatat 29160
tttctagtgc tgacattttg atttctgtta atattcccag atatacaaat gtacccaaaa 29220

```

caatacaaat tactgataaa catataataa tatcgtaatt taaatatattt ttaatagata 29280
 ttgaaacata aaataataat ataaatccta ctgtaatcat aaataatgat atagatatatac 29340
 tcataataat atataaattt ttaaattttat tattaacata atcatttgatt tcatttttcat 29400
 aatcttgtaa atttttattt ttttttaata tagaatataa catttttaa atatatattat 29460
 taatatattat atattttttc aaaaaaaatt taaatagttt cataatcagg tggaggtaaa 29520
 tttatagatt taactaattt attttgatct attatcaa taactaacgc aactaaatat 29580
 atatttatta ttgatataat aaatattaat attacaatta atataacaac ataaaaatata 29640
 gttaaaatta ttaatacatt ttttattata ttaacatact taaaaactaa tattaatatt 29700
 aatgatatta atataaacia tactaaaaat atatatatta tgcaatgaaa agagttggat 29760
 tgtttgttta catattgttt tatattaata ttgtgtttat ttatttttct aaacacatca 29820
 ataaatatat aatccataat tatataatct aaatatctat tttttttcaa aaaaaattat 29880
 atgggtttac atcttctata atcatcagat gttaatatat tcatgtcact tcttttatat 29940
 gatattattt ttaattcttt catatacact ggatgatata aaattttata ttcaattaat 30000
 gatgaatcag ctgatggttt taaattttct atacctacat tatctgatac atgacttatt 30060
 gttttattgt cttgttttac cattgttga taatgaatac acaataattc attattaaat 30120
 acattaataa tttttttata ttgtgataaa atattatcaa gcattattat aggttctgga 30180
 taaacatcag attcgttgat attgaaatta tttttaatat ttttatatat ataatatatt 30240
 attttagtat tttttatctc tgtagttaat ataatatatt cagttttttc atctatggta 30300
 tctttaacat atttatatga atctccatca aaatatatat aattttcttt attctcatat 30360
 tgattaataa catatgtttt tgttttaagt atatcaatta aattaattaa atttgatttc 30420
 atttaaaaat atatatattt ttttcataaa ttataaaata tagagtaa at ttttttttat 30480
 aaatgaatgt ttttgaaatg gatagtataa atatatctaa tcgtaattat ttaatagcag 30540
 gtgtaacatc tgataatatt tgaattgtg ttaatgatag tgctatggat gattatttat 30600
 ttgatacatt atctgtagat agattagatg gcggatatat aaaacacgaa tgtgggtatag 30660
 aatgtgggtg ttttaatggg aaattaatgg ctagtatggc gacagaaatg tcaagagata 30720
 atttaatagc atcgtgttct aaaagtgcag gagcttctaa tgtaaaatca tctaataatc 30780
 aaaatcaaaa aaaaagaaaa tcagaatctg gtaataaaat tcaaaaacaa ttagatatta 30840
 tgaacacaaa agaagatcat attaagaaaa ttgctgaata tgtagcta at aatttaccaa 30900
 aatcaccttt aacatatata gttcacgaca ttaatagatt aattatcaca tctcctttta 30960

```

aggatgttat tttaaacgaa aatgatatga aatctataat cggattggct gcagcttttt 31020
ataaaaaataa aacaataaat cattcattat tatcaactat taatattaat acaaatgata 31080
ttattcaaca attaagacaa gtatataatt tatcaacatt agtagattat gattcatttt 31140
taaataatfff aaaagtagcc agtgtggaat atactgatat tgcagattgt aatgattaca 31200
ttaaatatgt gccagacgaa cctaattgtc catcaatatt atttgcttta ttttctacaa 31260
gaatacctgt attatttgat attgttgtaa atcaagattt atttaaatta caacaagagt 31320
tacagacaga tgattatagc gcatataaaa atatatatct attgcttttt agattatctg 31380
atagagaacc atactattca aatcaatctg gaggacttag taataaaaatt gatgtttata 31440
ctgaattaag tcgtatatta ttatctatgt cgattaaaag attaatatta aaaattatta 31500
aaggcacagt tacaggaaac acagtagctc ctataatgaa tatatttaaa aatttatata 31560
ttaaaaatgt cagatcttct caagaagctt tattatcagc aattttaaaa atatgggcat 31620
atgctccaac aattgttctg aaaaatatat catctgattt tagaacagaa actgtatttt 31680
ttgttgaata tgaaatatct gaatacaatc aatttgaaaa tcaaaatata aaattcactc 31740
aagaattaat gaaatatatt tattacgata ctattgttaa taaagttatt ttgtctccta 31800
aatatatfff ggattcgata ggcggaacaa caggtagtga aagtataaca tattgtaata 31860
gtgggttttag aagtattaat cctatgacaa atgtagcttt aaaaatcaaca ggtatgttca 31920
ttttatctat acctagatta attaaacaat catattctta tggtttacct gacgaatttt 31980
ctgatagatt attaactaaa tatgtagatt tagatcaaaa tattaccatt ggttgtaata 32040
tgtttcaatt aagagcggcc gtttggtaca aaatatcaaa atatgttgat ttagatacat 32100
gtatacagaa tcctatatca ttaggaacag ttgctattgt aaaaacacaa aaaggggtgga 32160
ttagatataa tccagattta atgtattctt gtaacgaaaa gaaagattta ttagataaaa 32220
tactaagaaa tgaatataaa aaatcattga atttaaataa ttatgaagtt aatcaatatt 32280
tagataaaga ttacgaagaa tggaaaagta ctttttcata tattaataat attatcgata 32340
aatttgaaaa aggttacgta agtacagatt cathtaattat tcaagaggca gaagccatcg 32400
atataattag tagatatgga actattataa tatacgcaca agaataact aatgggtgtag 32460
atatgttacc actgagaaga tattattaaa tatctacatt attgataatg gaatttgttt 32520
cagataatff gtaataataa cttcttatta taactaagaa atatataata aataatataa 32580
tagcaataaa taatacaatt ccagtatata aaatataata taaataaaat agtaaattta 32640

```

```

aaatatatat taatgttaaa acgtaagaat atattatata atattttata aaattagtat 32700
ttcttttata tattccaatt aatagtaaaa tatttataaa tatagatata attgaactaa 32760
taatctctat tgtaacaata ttatataata taaccaattc atcgtgttta aaatcataac 32820
tattttattct atctatagtt ataccaaata taattatatt taatatattc cataatatat 32880
ttatataacc tattataata gatccttggt ttaaactctat aaactcaaaa caattattta 32940
caataaaata aggcattttt atattatatt aataatttta tattattttt tcaatttctt 33000
ttaattatac atttatatca tttaatatat attcttcgtt attttgattt gaataattgt 33060
ctattataaa taaattatta tatttaaata taattgttat aaaatatata tctaattaa 33120
tagcaattat ataatttaat atatcaatat atatatcatt atatgcgtat aatattataa 33180
ttattatatt aattattatc gaaatatata atataatata tatttttata tatttggtat 33240
tataatacat tattataaat aataatacta taattattat attattaatt aatgaattta 33300
ttattgctaa caatgtaata atttctattt tacatattat agataaatat agtaatccag 33360
atactataat agcagttttc catataaaat ttaaaaaaca tacaattatt aatgataatt 33420
ttagatccat aatatacatt gatgttatat tattttttca tattgaaatt tattatttta 33480
tattaataaa ataatatata ttacaatcat aagaaattaa tttagtatat gagatttaat 33540
cacggaatca gtataaaata catattttatc ttcatttttt atattttcta aatcatcgtc 33600
tgatattaaa caagaataag atacagaatc atattattata caatatatat aatattttga 33660
ttgttcgcga tctttaaaaa tatttatcac agatgcaagt aatgaatttc ttagattttt 33720
attacaaggt attaaatcca tatttttctga ttcggaattt ataacatgat atgataaact 33780
atctcttgta gttgtatcta aatgtttctaa tctatgaact agaaaaatat ttgatactaa 33840
cgaatgtctg cacacatttg taaaattact taatttatct tttgtgtctt tgccaatatt 33900
atcataaata actaatgttc taaaattttc acacttttga ttcattttcaa aactaaaatt 33960
tttaattttt tctaaatatg ctgttaataa atattttaaca tccttgctt tgttattcga 34020
ataaagataa aaaacatgat tgggataaat aaatttaaaa tattcatttg atttaaagtt 34080
aacttcagaa ctagtaatta aatatataaa tttataaaat ccgtaaccaa tttttaataa 34140
taaattcttt aaaaatgtag ttttacctga tcctgttttt cctataattg ccatattaaa 34200
tgggttagca cgcagtttat cataatcgaa ttcggacata tttataataa tcaattttta 34260
taaaattatt tttatataaa tgacagatac tacaactgac gtggttgcta tgaaattagc 34320
caatgatatt atgaatatgc catcttatgt caaagttgta aaagtaaata atggaagaat 34380

```

```

gggaggtaga ggaagagaat tattagccct tttaaataca tctcaattag acggttttat 34440
gaatgctttt agaggaatta ctggaatggt tggtataact ggtggtttgc atgaatcact 34500
aatcggtatca ttaaataaag gttattataa tgaaatggaa gctggtgctg tagatgggtgg 34560
atatggtcca caaggtaaaa atctaccctc taataatcca aatagacaaa gatatgaaca 34620
atatggtaga tcttataatc aaggaaatca aagtagccaa ggtaaccaa gtagatatga 34680
tagatatgac ggtaatagta atagatatta taataatgat agtaatgatt atgataataa 34740
tgatacgtat ggacaaggac ctggctgtac tcctaattgta gacggtagtc gagacagaag 34800
atgtagagaa cctaatatgg gtaataatag tagtaataat agtaattatc aaaatcaagg 34860
aggatcacia cctaattgtg gagaaaaact aaatgtagat aaatcattgt taagtagtat 34920
tttgacacgt tgaaaattta ataatacaata taaataaatt ttatattaca ttgccattat 34980
atataaatga gtaatatga aatatatgat atgtttgaag gtgataagga agtactatct 35040
atagctgggt cacatataaa tgaattaaaa gctgataaaa atttatgtag tgaagttata 35100
aataatgttg ttaatgattt ttcgttttct aacattgaaa aaaactttta aaatataaaa 35160
aaaattaata aatttaaata taaaattatt aatgatatta caaatgtaac tgaaacagat 35220
tatttttaac catattttta aatgaaacca tatatggcta atcaatatat atatcatata 35280
catactggag gatatggcat gactgttcgt attaatgaaa gtttttggtt taaaatatca 35340
ttaaatccaa ctaataatca gatacatgaa tttgtaatac ccaggatggt atctagtatt 35400
atatcttatt caaacgcaga caaattaata ttattaccat atacattaat aaagaatata 35460
aatttcaatg gattgatata tataataagt atgcataata taattttatt attaatatt 35520
tttatattag ataaaaatta tagtaatatt gatatatata atacatattt agattttaat 35580
aaaatgaata gtatttatag atctttaaca aaagatgaag aattattata taaatgtttt 35640
acttattttt ataaaaaata ttttaaaaat atttttaatg ttataatgat taataattat 35700
tcatcaataa tttattattt aagtactatt aaagatttat taactaataa agattataaa 35760
gacaaaatat atggatctat tataataatg ccttttagcta tatgtgcgtc gaatgagttg 35820
aaactttcaa tatataatga cacatatggt ccagatatga taaatggaaa tattgcatat 35880
gaagtaaata atagatatat aagacatatt gtattagttg ttttattatt aatatgtata 35940
ccaaacaaag atagaatgat attttttcac aatgatataa aaccaataa tatattagtt 36000
tttcctaatt taaataaaga aaaattaata ataaaatata acaataggaa tataatattt 36060

```

```

aaagaattat atatattaaa attaacagat tttgatttat ctagaataga aggattagat 36120
aacaatagaa ttaaaaaattc tccaatatta ttatataata acataattaa cgatatatat 36180
tatttttttt atagattaaa atatgatttt tttttaaatt taaaaacaat agatccagag 36240
ttaaacgaac atatagaaaa taaattttta ttaaaaaaat atatgaaaga tactataaat 36300
aatcataatt acaaaggaaa tgaaaaaatg tctataagtt ttgttaatga tttcatattt 36360
aattctggat tatttaatta ttggtttagat taaatttatt ttttatatta ttatttatta 36420
taatatgttt gtcaatcata taattaatat tttcttttat actattatca ttatatataa 36480
aatatttaat atgttcttca aatattttat ttttaaagtt gagtaaatat ttataatatt 36540
ttttatcaat aacagacaat tctaaataat taatacaata taatttatct atatttatat 36600
agtcatttac attattatta taatgtatat aaaatatatt tttatcatat aaaaaatttt 36660
tattataaca cttatataaa aataatgtat gtatataatc taataatata ttatgagata 36720
gattaattaa attacatttt gtgtcattta ttaataaatc ataagatgat tctatataat 36780
cataaattac gttatatttt ataatatttg taattatttt tttaataaaa tataatacta 36840
tatcatttgt attattattg ttatttaaaa taattctaaa ttttaacatt aaatatccat 36900
atttaacata tctttttaa ataaactaaata aaacattttt tttattataa tttaaaatat 36960
ttatatattt ttttattgat atataataag aaatatcttc cgttttatat gtatatatat 37020
tttttataat atcattttata ctattcgaat tattgtcata ttcaaacaat atttttttat 37080
atgaattatt taatatttta atattgaatg tattattgat tttattaata tatttattta 37140
aaaaatcatt atatattaca tttaatattg ggtttttata ttcttgaaca aatccagctt 37200
gtctaagtggt atttcttttc tttcataca tattattata ttttattaaa ttagcaacat 37260
ctacattagt agatttactt ttttagaaa cgtagtttt cggaactgaa aatgtattaa 37320
ttctaggagc attttccaaa gaatttatat atattataat cttatttaat gtttctgcat 37380
aacctcttaa ggtattttct gtttcagtta tatattttgg tatatttcct tgactataat 37440
ttttatatat aaaatcattt atttctttta gattattttt tatcgtatct ataacattaa 37500
taaaatcata atttatatta tccaacacat tttctatttt ttcttctaata tgtaaataat 37560
tcatattatc aatttttggt aatatttcat tatatttatt agatattata ttaatttcat 37620
catatattcc tgctatgttt tcattttttg attctaataa aggtaacaat aattcattaa 37680
ttgcatttat ttttcatca aattctgacg atatttctgt ttttgtttta gataataatt 37740
ccttaatttc atctaattga ttttaattta ataaatcgat tgatttttaatt attttatcat 37800

```

```

ccaaactatc aaaatttgat aattcttcta tatttatattt attatcagat aatattttat 37860
ctaaaatatt tattattata ttttttattt gcaaacttgc tcttgaagta taacttttta 37920
tatattcttt aatatttgcg tatttagatt gtaacaaaac aggatttatt tctaaatatt 37980
ttaatatatt atctattttt gctttttcgt cattaaaatc ctcgataggt atagttttaa 38040
tattttcgct aatattattt tttatttttt cgatatcagc ggcaatttca gatatttttag 38100
cattattagt gctaatatct gtattaatta aacttatact attgtttata tcataaaatt 38160
tatcatcaat ataatttttt aatctagatt ctacctttgt aattatacta ttttcagtag 38220
gaatattaga ttttataata tttaatatat aatctgtatt tatattatta ataacacttt 38280
cattaataat atttttaaat ttatcagagt ttacatattc tccgtttaaa aaatttttta 38340
ttaattctgg taatatttta tttataaaaa tttaatatc ttctgataaa tcaatatttt 38400
ttatatctat caaatttggt acatcaccac tatttaaatt ttctattata ttgttaaatt 38460
taattagtaa atcatcatta gttaatttta tatttttaga tatatcttcg acgtagttat 38520
aaaaataact ttctttatcg tttattttat ttataatagc actctgattt tttataaaat 38580
tatcatattt ttcatcaatc gaattactaa catcagataa ttgtcgaaat ctagaattta 38640
cattttgttt ataatgatcg tgtagttttt cagtttctcg atatagattt aatatttggt 38700
tatcatattt atcatatata gattcaatca tagtatctat atcattcata taagttctaa 38760
gattttgata tggagatatt aaaacatcta aagatgatag atgtgtatta atttcatctt 38820
gtttaatatt tatatcatct attttttcat caatagattt tttatattgt ttataatcat 38880
taaaattatt aactaaatcc attatatcat ttccctttta aaattcctta tttataattt 38940
cttttaaaat atttttaaat ttttcattaa tatttaaact attaattaga gaatctatat 39000
ctatattttc actgctaata atatctttta ttttttttaa aaaattttca tttgataata 39060
ttaaattaga taagtattca tcgtctgata ttttttggtt taattttttt ataacatcgc 39120
tatttttttc tacataatcc attataatat ctatattttt tgatttaatt atttccatat 39180
caattatatt tttatattca tccgatgata atatattatt aatataatca ttatttatta 39240
tattctttta aaaaataata aaatcttcat tattttttaa taaatttata aaatcgtaat 39300
ttttattata attattaata aaatataaaa aatcatcatt agttactatt ttattaataa 39360
tattattaat ttttatattt tcatttatat attctttaat attattttaa aataatggat 39420
ttttagatat aatatttact aatttatcat ctgatatata atttttaata taattagtta 39480

```

```

atttatcaat aaattcttta ttttttatta taatatcaat gggatattctg gaaattaatt 39540
gatcaataat attattgtca tttttaataa tatcatgtat ataatttttt atattttatat 39600
taaattcttg atctgatctt aaactatata tcaaactctg tacattttata ttattattga 39660
aattttttct aatagattct aatacaatat tttcaatatt taaattttata tatctattaa 39720
tatatacatt atttataact tctggtaatt cgaatactct attttttaaa atattatttt 39780
ctccatcttt catatgtaat ataattattag aataaaaatgt caaatatgta tataaaataa 39840
tataatcttc gttaaaatat ttaattattat tcatttttta aaataatttt aatacatgtt 39900
tatatttttt tatcatatca tttgtaacca catcactagt attgaattca taaattatat 39960
attctatttc gcttaaaatt ttagttatta atatatcatt actatattta atataaagga 40020
catcaatata ttcacataa tttgaaacac ttatgttttt attcatccga tttatatatg 40080
tttgattcat tatttatata tacacaatta taaaaaatat ctatatttta agtaaataa 40140
aataatggaa gatctatata ttaatgatc attgtcacia aatatatcag cttttggtaa 40200
cacaaccgaa gctggaaaaa aatattatgt aatgccttca aacaatcctt atgttccaac 40260
taatgccatg ttaaactcta ttactgatcc tatatataaa aataataata ataataataa 40320
taataatgta tcagtcgata ataataaac acaagatatg aatgttagtg tagatactaa 40380
taatgaatcc agagaagcag atatttctat ttttgctaatt ttagaaaata atgttccgga 40440
tttctttgtt aataatataa gtgaagaagt ttttataata tttattgcta cagcagcatt 40500
attagctagt gctagaataa ataataaatt aatttcgttt atattatttg taattatata 40560
gctgttagta tcattagaat atgggtgtag tattgccatt gtattctatg ctatatctt 40620
tgtagatata atggacatat ttattatcat tttagtagta ttagctctga ttcatatatt 40680
cttacctatt cctggattag ttagcgatac gtttaattgg aattatgtca tacaagccgt 40740
attaggattg ttattattat tatctattaa taataattgg aaaagagttt tttgtataga 40800
taatagttta aaaaatagta atacaaaaat attcaaagac gagaatacaa atggaatatt 40860
gactaatatg tcatattaaa tttttattat tgactagaaa attgtaatat aagtacacaa 40920
atatgaaaaa atattaaagc tataattaat ataattaatg gcatacacat tattaataa 40980
atataagtat attttttatt atttacaata ggcttattat taagtaaaat agaccattt 41040
atatatatca tattgtttta tatagatttt ttttaatttta gattttcaaa tctagttctc 41100
tttgttaaat atttaatgaa tggaattata taatcatatt ttatatataa tcttgattta 41160
tatcttatat caaaactata attattataa ttaattaaag ctatgttatt agtagataat 41220

```

```

ttgtattcat ttgttaaatt aaataatfff attgttttat tatatatatt ataaattgct 41280
gaattcttta taaaataaat aatattatta taacagaata taggatattt tgcaataaaa 41340
tttttattaa cataactaat attattatca cttataatac tgttattata tttttttaa 41400
caacatatac tttctttatc tatacatggt aatatattta taacatttgt gtcattacaa 41460
atatatttat tattaaatff taatffttata caattactat tagtaattat taaaatatat 41520
atcaatatta tatttatata catttttatg aaatcataat tttatcatat atatttaatt 41580
tttttatttt actttttctt atataatata tacttaataa tgttattatt aataataata 41640
ttataataat tattatcaat atatatattg tatatttttt attataatca ttaatatatt 41700
ttagaaataa ttcaggattt aatatataat tattattgca tttaaataat ctttcatcaa 41760
ttacaatatt atttatacag ttattataaa tatcatcatt catatataca tattccttaa 41820
cacttaatat tttttttttt attaaaaata aatataatat attatattct attgaataaa 41880
caaacaaaca agatttatta ttaaaacatt tatgtttata atatattatt ctattattag 41940
ttatgttttt atattgtgaa atatttatac tattaattat tttatattca ttatcacatt 42000
ctattattaa attattataa tgtttcaata atatattact atcagaatta attaaattta 42060
tatcttcttt atattctata ttatttaaat ataaacataa ttctatgtct gtatgagcaa 42120
atatttctgc tattattaaa aatataatta tatatccaaa catattgata tccatataag 42180
taataaaatt tcatagatat tttttattta ctccacgtag atttaacata atctgctata 42240
ctaaatacaa ttaaacctat aattaaaaat aaaacacatg caaccaacga ttgtatatat 42300
ataaaatatt tatatatataa attattataa gaatatttat atgaaaaata tccacctatt 42360
ccagttttta caatttcgat taaatatgac acagaagcaa aaaaacattg cgatgctaatt 42420
atatctaata ctattgtaaa tataagcatt tattatacta tattatttga atagattcaa 42480
ttataatatt atttatattt atatttaacc acttttaaacc gatacatgta gcatcagcta 42540
tatcatcata ttttgtatat tcagataaaa tagaagtgtt tgtatttttt attaaatfff 42600
taaaaaatatt aatagtgtgt aattttctta gtttgtatga tttaatgttt aaattaaatg 42660
tatatggttt cgtactttga actgatattt ttttactttc gaaaaatgaa tatatatatc 42720
cataataaaa aatatttttt cttcctctaa attgttggtc gataattacc ttatcaacat 42780
tatatataca atatttatta tatatattat ttaatttatt atataattta catgatgtta 42840
aagggggtaa attttctttt atacatatta tattacattt attatctatt aaacttatca 42900

```

ttgataatcc taaatTTTTT acaccaatat caatagataa tattatcata attatttata 42960
 tatataagac ataatcaata taattataaa accaaacata gaacatatat caataatata 43020
 atatagtaaa tttaaaaatg atattattac agtattttatt acccaaataa atctagtaaa 43080
 agtaaaaaat ataattagag tattaaaaca ttttattata tgtaataatt ttttcatata 43140
 tatattatcg ttttgataat tcattattaa cgtaggtaat aaagtatatatt cgcttaaata 43200
 atccatcaaa atttcattta aatattccat ttttaatat aattattttt cattaattag 43260
 taattataat atcttcttca gtttgattaa ctatagttgt tcggtgtgtt ggatcaatat 43320
 taaccatttg ttgtgtgtgt tctttaatta ttgtttggtg tgtagtatta ttattacata 43380
 cattatttgc taaaaacatt gtattatttt cagggtgtaa ataactaaag taaaatatag 43440
 tattatatag aagccaaata acaaaaatta accataacca ttttgcataa ttattaatat 43500
 taaatgttaa atataatata attaattgata taaaagtagc aaaaatatat aatacacctg 43560
 aggctaaca tgattgtgtt tgatatgtta taggatttga aatatattt aaaaagaata 43620
 aaacaggtat catataaaat aaatatataa ataattgttc tcttctactt tttatattag 43680
 caacaaaacc ttcattgtta tattgatata ttaaaactaa tgcacctcct gcaattagat 43740
 aaaagaatgt tgaaatatat aatccatatg gtccatgaga gatatcaggt aacgtaaatac 43800
 taatattaga ataccataat tctgaacttg atgaagtata tatattacta gaaattagtc 43860
 cgattagtgg taaaataaaa ataattattg caaatgataa ttgtgaagtt attaaatttt 43920
 taatagtatc tacgatattc gattgtctcg cagtattgtc catttatata gaaaatatta 43980
 acacatcgat aaaaatttta tttatttaaa aaaatattac aatctgatat aagcacatat 44040
 ataaaaatat attgtatgta ataatttatt atgttatcta ttatgattag attaaatatt 44100
 ttatataatt atacaatata atcacatata ttttgtttca tatgcaatat attataatta 44160
 aatagtgtat taattataat tatttatatt tttacaaaag accatattaa atttataatt 44220
 acgattaata ttataactgt tgtaaaaatt ttagaacaac gttcgtttgt atcaaagatt 44280
 tcaatactga ataccatcga agataatata attataaata attgtataga tataatacaa 44340
 ataataatta tttttctaata tataacaact gggttttctt ttaatatatt tataataact 44400
 aatattgtat atactaaata tgttccacat attaacgaat taatataatc aatttttaaaa 44460
 gattcgcgat catccgatat cacaattaat ggaagaatta tacaatttat tataaacata 44520
 catatagtta tcataaaatc atagttatta taaaatttag ttattttttt tttatatatt 44580
 aaatcttgat ctggcgtagg tggtaatatt cgattttgtg tattttttata tgtgtatgta 44640

```

tttgtgtttg tgtttgtatt tgtatctata attgtttccg tttttgtatc tatatttact 44700
tccgttttta tatctgcgtt tgtagaatth acgttttgaca tttcaattht atttaaatca 44760
ttgtgttttg gtttatctac atcaataata tcttttttct gtctaaaaac atcagaaaat 44820
gtgattttat caatttccat aacaactggt gatttttcgt ctttttctat taatggagat 44880
aatgtatctt tttctattht atatthtgat tttggttttg gtttattatt ttttgaatta 44940
gatatgggtg ttttaattat aatatcatta ttatthtttag ttttattggt atttgtaaca 45000
ttatthgtgt catgatttac aattgcattt gtgataggat ttttatttac aatggaattt 45060
gtatthattc catatatatc atccattata tagaaattat attacaacac aataagaagt 45120
gtatattata ttatgttata aatthtcata atcataatth gttataattc ttttaacatt 45180
tttaatttca tctaattctt cactactaat ttcattcacga tttatatatt ctataaataa 45240
cggaaataaa atthtaattt tattaataatc aaatttatta ttagaattat atgtaacaca 45300
tcgtaacata ttttttacat tttggtaata acaatttata taatcgatat tcaatttatc 45360
tatatthaat acttctctat tatatattht attgtthttt ttaacacaca taggtatatt 45420
cataattatt aacattatca ttgctgctgt ttctggtgtt gtagaagaat ttgaaaataa 45480
ttcaatatta taattattht ttaatttatt ttcattctaatt aatggcaatc caccactttg 45540
taaaatatta gtataattta gaaatataga caataattca ttaaatttta tattatataa 45600
atatthttct tttgctttat ttatthtatt catatctata atthttacctt taaaatattt 45660
aatthttatct ttggttttta tttttttaat tatttccatt tcttggttctt cgttaattat 45720
ttcattctaatt aaatttattt cagattcgct agattcatca tttgcacaaa cttcactata 45780
cactagatca tccatatctt cttcatcgct aggtccaat tgatcatcat cataatcgac 45840
gtccgacatt tatattgtgt ttttttttta taaatgattt tatattatat tataataatt 45900
ttaattctca caatatcata ttattataaa ttttttaata ttctttatat atthttcatta 45960
tttatattat tgcattatat agcaatatta gagatatatt acgataaatt gatagatata 46020
gaatatgttt tctaataatt tatattcggt ccacctctaa gtcttaatac caaatgtaaa 46080
gtagattctt tagatatatt ataattctgaa agagtctctg tatcatctaa ttgttttcca 46140
gcaaaaatca atctttgctg atccggagga attccttctt tatcttgat tttatthtta 46200
atatttgata tagtatctga actttctact tctagtgtga ttgttttacc tgtaaatgtt 46260
ttaatgaata tttgcattth attagaaaaa tatttgtaa aaaaaataat tactattctt 46320

```

tattttctgt ttctatttta tctacagcat caactaattt ttcacatctt attttattag 46380
tttgatctaa tacaataagt tctttaactt cgggtttttt atttaattct gatttttaatg 46440
tttcaatttc agtttctact tcttttatcc tctgtttctaa tttcatatca gaaatatatt 46500
ttcttattaa atcattatta aaattatcga tattgtctac aaattcatta gaaatagatt 46560
cagtttcttg agtttctaatt tcatatgtat ctctattgat tatgcgtata taataatata 46620
taaataataa aataattaca aatgttaata ataagaatat gtagctcatt tataataaaaa 46680
taaagtgtga ttatatcctt attcttatcc attatattta taatatgctt tgttcttaac 46740
ttattattat ttattattta ttatttaatt tatacatctg atatatctcc aataaataaa 46800
tcttttaggat ctatatttta tcttatcgaa taatatacta atgctatttt tttttttata 46860
aatgagtgat caatatacta aattacttat tgtattaata ttttattata tgcttggttt 46920
tattattggc cattttatat gtgaattttg ttttactatt tatgaatcat ataataaata 46980
taaagaagaa aaaaacgaag aagataaatt attaattatt aatacaataa aagatacact 47040
agaaccatat aaagaattat ttgataaatt aaaagccaac gtagaataat aatattttta 47100
ataaatggaa gaagattttg atttaatatc taaaccagat ataatatata cgccatcatt 47160
aattgatttt attaataaat atggactaag taatatattt aaaaataaaa aaataatatc 47220
taattataaa ttttatattt tatttatatc tatgcaagat tataatttat ataaaaaaat 47280
tggttttagaa tataaattat ttatattaaa ttttataaaa tacatacaag atcctaattg 47340
taaaaaatac attgcagaag taatagatac agataatacc aatatgtata aaaatttttag 47400
tgattatccc attctttatt tatggaaata tgtatataat attaaacaat caaacataaa 47460
tgattataat gatatatcat ctatgatgtc aataaaacat atattaaaca aagataatga 47520
ctataaactt tatacatata atcataatat tattgtaaaa tttttattat ttgcgtggta 47580
ttctaaatat gatttaggtg tagaaatatt atataaagat acagatgatg agattaataa 47640
tgatgaaata tttaaatttta taaataaaga agactctatt tttaattatg taaatcacaa 47700
taataaagat taccctttat ttaacccttc agatgatacc attgattcat atgcaaacat 47760
aagaagcgaa attattagta ataatataga acctggatat atatggaaaa tgcctaattt 47820
aataaataaa ttaatgtcta caggaatagc agaaaatata acagaaaaat atttttctat 47880
attatataat tatttatgta atggtgttgt tactaataat ataatatgct ggacttattt 47940
atttggttat ggtaatgtag atcctatttt attgaataaa ttattttcta taataatgaa 48000
aataccaata caattatcag gactaatatc agatttatat aataataaaa atttttaaagc 48060

```

aattgataat ataaaagaaa atattagtaa taacacaaca tataattatt ttcaaggaca 48120
atgtaacata aatatagatg atgcattaaa cggaatacct aataatattt tgaatactat 48180
agttgaaaaa gattttactc cacagggtta ttttattaat tttggtatag atattaacaa 48240
aataaatttt aatgaaaatt tttttaatat attattaaac aataatccaa tttcaacatc 48300
tatggatgat ataaaaaata aaattaaaaa tacatataat aaaacttata caaaatatta 48360
tatagatata tataaactcg tcaattatat aaattctaata aataataatt ttgaagctgt 48420
tatagattat aattttacaa ttttagatga aataaatgaa aaaaatttaa aatattttaa 48480
tcttcctata ataaaaaagg aaattttaaa tattttatat aataaatatt attttattcc 48540
tgattgtaat aatataaatt tatctaaaca atataataat tttatattaa aaaaatcacg 48600
tcttataaat atttataatt gttaataaaa ttcagacatt gagaaacagg tattagattt 48660
aatgaacaaa aatacatatt taaacatttt atttagttaa tataatcaat gattattttat 48720
tattttttat ataaatggat aatggtgaaa tagtttatta tttattagct actggtatat 48780
atattattat gatattagca attattggta ttatatgggg atttttactc tcaattaata 48840
aaactagagc agcaataacc caatcaataa gaaccagaag aaaaggatta tattggttta 48900
tgaattttac attttgggta gttccatttg ctttagtagc tgggtttttat ttttttagta 48960
tatgggttat tatgaacca caagcaaaaa tatattgggt tcctcatcca taatcacatt 49020
aacattatac tatctaaaaa tgattttttt ttatctgtat tttttaatga ttttttatat 49080
ttcatggcat attgcaaaat ttcaaaatta tcgatattaa taaatgtgga ttttccttta 49140
atatttttat aaatatatat atgtggtggt ttaattacta atttttttat attttcatca 49200
tctttaaata attctaatac tttatttcca attttattaa tattaattct aatataattt 49260
attttatttt tattagataa atgatctaga aaatcattta ttatttgaca tatcttacat 49320
tcttttaaat acatacatc tatagttggt ttttccattt atataataaa tttataatat 49380
gaaatattat ataataatta aaaaatgtat tatagcaatc ataatttatt aatagatttt 49440
ataaaaaata attttttaat acctaaatta tattctattt ctgtatctaa taatataaat 49500
aacattgaaa aatatgttaa atatcataac aaacttgcaa aaaatattaa taaaaaatat 49560
agaaaagact tatataaata tatagatata gatgaattat ataattttaa atattctata 49620
tctaatagaa aaataccttt aaatataaat acaaaaaatt gttatttttt aaatgaaata 49680
tataaaaaag atattattaa agcttataaa tatacatctg gaatagactc tataatatat 49740

```

cataaaataa ataaagtaac tgatactata ttattcttaa tatataaaaa taatggaatg 49800
 gaaagaaatt ctgtcggtag atgtaaacga ttagaatatt gtattaatat ttgggatgca 49860
 attcataaat tagattataa tttatattat aaattaaatt tttttttaa aaaaaattca 49920
 caaatagatt atatcagatg tatattatca tcagataata atttagatat ggaaacaata 49980
 ttttgaata ttatgaataa 50000

<210> 26

<211> 50000

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 26

tataaacatg tattgtaaat ttaattattaa tatattatatt tatagaaaaa ataattattta 60
 ttattataat gatccgttaa tatttaataa tctggaagaa gatattaatt tggaaagtaa 120
 tgaaataata tttgttgata ataaaaacag tataggatg tgtagaaata aaatatccaa 180
 agtttgtaaa ataatacaata aagaagttga ttgtaataat acatcattga agttaaaatt 240
 taaaaattta gttgggacca aagtatataa aattttatta aatgatatac atttattata 300
 ttattatgat ataaatagtg atatatatat ttatttagat aattctaata taaaaaaatt 360
 ttattcaaat aaattagtta ttgataataa tattgtaata tcttcaaaaa tttcataca 420
 taatttttaa atatataata ctacaaatga attagaaaaa atatgtattt ataataatat 480
 atatgaatta acaaaagatt attttaaaaa cataaatata acacataacg atgatttata 540
 tacaagtata gaaaaaataa aaaaaataa taatatagaa ttattttaa taatgaataa 600
 attaataaat aaaactgtaa aatatcatat gcaaataata tcagaaaaca aaccattga 660
 tttaaataaa tatgatattc ttttgattt tttaacacat atatataaaa attcacaatc 720
 taactgataa tagatgatta ttatattcta atactatggg aaccgtaaca atatcatttt 780
 taaaatatgt taaatagcaa ttaccaaata tatcattttc tataacaaat gatgattcta 840
 tagcattatt aatatattct tttattttat cattatatatt aatatctata tttttaatta 900
 tatattcggt taatgttgta aatttaaattc ttgtattgta ataacaatat cttcggattt 960
 tttctaaaac aaaacattcc aaaacatcac tctcgatggg atctgaagat aaaatagtta 1020
 gattttttaa tatattatca gctactttag atttttcaaa ttttaattca gaatataatt 1080

```

gttttctaaa atcataagat aaagtatacg aactttccgt taacaataat tcaattttat 1140
ttaataaagt atttttataa acatcagaaa tattaacatc tttatatgtg tcaattgttt 1200
tagaaacatc gttacttaat gtatttggtg ttgatgcaat acatattcta attattactt 1260
ttgtattagt atctttataa gaaaatgatc taacagctct agctacacat tgatctaatt 1320
cagattttgt ttcaggaaca gttaaaaacc atatatcttt tacgtttttt aaagtataag 1380
cttctgatat aatttttgaa ccaaataaaa acattatatt atttccatca tcattaatat 1440
cttcgttaaa aatacttaaa atattattta tataattact atttccttta tttaattctt 1500
ttgatgtaat tattacaaat ctcataggaa tacattctcc attgtgacaa attttatcct 1560
ttatacaatt aacacatgta aaattattaa caatttcttt tccatattca gatatgccat 1620
ttgctaacat aacacttctt attatagcac ttcctatagt actattagca aaatatacaa 1680
atcgtttacc aacatttctt tctttaaata tagtatctct aaaagttttt aatttagaag 1740
atatatttaa tgtaactaat tcagatcctg aaaattttcc attagaaata taaaaattat 1800
caaatatttt tttatctgtc tccataaatt gtgaaaaatt ttcataattt gatatagatc 1860
ctaagcaac caacgaaaca ctcathtaata atttaacaaa catatcattt ttagtatttc 1920
tagctacttc ataataattt tcttcatgta atttagacat tggacataat gtcaaaggac 1980
atagaaatat ttttttacct ctgtatttta cttcaggaac atctttcctc tcttcatcat 2040
aatatgatat taaacccttt agatttttat ttaaaaaatgc aataccttcg ttatttatac 2100
ttttttcaaa aacacgattt ccacctattt taatatactt attttcatca aatgtttccc 2160
tagttaataa ttccacaata tcttttattg tcgaaacagt atttgttatc ggactacctg 2220
tcaataaaac atatattata tttgtatttt ttcttagagt agataatata ctacctgtca 2280
tattttcaaa aaaattatgt gtttcatcta ttatcataat ataatcgtta taatttttta 2340
atttttcatt tattatatca gttttaccta ttaacattat atcttcgttt aattttgttc 2400
tagttgtaaa ttcaatattt tgtaaattat attctttatt aggaagtaaa attaaagatc 2460
tatataaatt ttgtttccac atttctaata tactataact aggcaatact attataactt 2520
ttttaatatt acatattaat atgctaaaca aaagagaaat aattgtttta ccagaaccca 2580
ttttatgaaa caataaaaca ctattagcat tatttataca tttttgatat aaaaaatcta 2640
atgttgctaa ctgatgaggc aaaatttgag caatattggt cggaatatta tcatttctca 2700
aatcatctaa tataacttta ttcattattt atatatttct tttttaataa aaataatact 2760

```

atataatcata	ttgttcattt	tcaatagatt	ttataatatt	tatgaattta	tattcttcac	2820
aacgatttaa	agtaaactta	tttccattaa	tttctataaa	aggttttcta	tttccctaac	2880
tatcttttaa	aatactttta	tcttttatcc	tatctttaag	attgttaatt	cttattttat	2940
ctaattcata	tatttttagac	tttaacttag	aacacatatt	aataggatta	ggattatat	3000
tttcatctat	aattacgtta	tgtttttcta	gcccaattaga	tttattagtt	tttatatat	3060
gatcttgagc	tcttataaat	ttatattcat	tattaataat	tttatttttt	aataaaaagat	3120
atztatgttg	taatttaacc	tcttttaggt	ttacattcct	atcttctatt	acaacattta	3180
atztatcttt	aacatctttt	atttcttctt	tagtttctat	aagattttatt	cctaattctt	3240
gtaattttatt	taaagctaatt	tgattttgtg	ttaataattc	gttattttgt	ttagatatat	3300
tatctaattt	aatcgataaa	atatctattt	tatcttgctt	attattaata	atatctatat	3360
attttttttg	tgttctttta	cggattgttg	gcaataaatc	aaataaaaata	aaatcttgaa	3420
atccttttagc	agaatcttta	gtacaatgta	atataatata	atatatacca	ggttcattta	3480
aataaatagc	tttattttta	ttatttttcg	tcatagacaa	attgtccctc	acggaagata	3540
atatgttata	catattatct	ttaaatttat	catctaattc	attaagtatt	ttattatgac	3600
tatcatcgct	gtattctaatt	gcttttaaaa	tattttttacc	acaaaaccaa	ggattattaa	3660
tcgtaccaat	tacttttatt	tttaccatcat	tataattaaa	tatttcatta	aatgtttcaa	3720
taaattttat	atctattttca	tcgttttaaat	tataatttaa	atcggaatat	gtagaatctt	3780
taataagtat	attttccatg	tttttataaa	aattaatata	ttatttcaat	tatatatcat	3840
attgttcatt	ttcaatagat	tttataatat	ttatgaattt	atattcttca	caacgattta	3900
aagtaaactt	atttccatta	atttctataa	aaggttttct	atttcctaatt	ctatctttta	3960
aaatactttt	atcttttatt	ctatctttta	gattgttaatt	tcttattttta	tctaattcat	4020
atatttttaga	ctttaatcta	gaacacatat	caataggatt	aggattatat	ttttcatcta	4080
taattacgtt	atgtttttct	agccaattag	atttattagt	ttttatatat	tgatcttgag	4140
ctcttataaa	tttatattca	ttattaataa	ttttattttt	taataaaaga	tatttatggt	4200
gtaatttaac	ctcttttaggt	tttaccattc	tatcttctat	tacaacattt	aatttatctt	4260
taacatcttt	tatttcttct	ttagtttcta	taagatttat	tcctaattct	tgtaatttat	4320
ttaaagctaa	ttgattttgt	ttatttaatt	ttaatatttc	gttattttga	tattctgttt	4380
tattaattaa	ttcgttattt	tgtgaaatta	tttttttatt	ttgattaaat	aattcatcta	4440
ttttacattt	ttgattattt	aaggatttta	aatatttttt	taaagctaatt	tttctaattg	4500

```

atggtaataa ctcacatcaaga atatatatcttt gaaaatcttt agcagaatct tttgtacatt 4560
gaaaaactat ataataataat ccagattcat ttacataaat agctttatctt tcattgtttt 4620
ttgtgggggg tgttttaccc cctcgcacaa ttatatcata taaacttttt ttatatgaat 4680
tatttaattc ttttaatatata gatttataac tttcttttgt atatccaaaa ccataaatta 4740
ttatatcttt tagacaaaac cacggttgat ctatagttcc atttatctta atatctgtat 4800
ctttaaattt aaatatctta ttaaaattat aaataaaatt atctgttaac gtgtctattg 4860
aactataatt cagttcaata gaattattag acttaataag tatattttcc attattaaaa 4920
aaatactatt atttcaatat aatatcttaa tcagataaat taatgaaaaa atattaataa 4980
aatataaata taaaaatggg cataaaatat ttatataata atttattatc attagattta 5040
ataaaaaattc ataataaaca aatttcaaaa caatatctat atatagattt agattgtatt 5100
ttttatactt atgcacatat ttgtgaatca gataacgaac ttattaataa aattgttaat 5160
ataatagaag aatatataaa taatgataat catgtaactg tattttatga ttcaggaatt 5220
ataaataaaa aaattaacga aaataataaa agaacagcat cttcattaaa acattataat 5280
aatattaaag atgtgtttta acaaaaatat aatatgaatg attcttatga atttgagtat 5340
aaaactacaa taaataatat ttctacacaa acaaaatata catacaataa taataatatt 5400
ttaatagaca acgtcgaaga agattttact gacaattaca cagatgataa tattaaatca 5460
acacaaactt gttttatctt tgaccaaatt gaataataa tatgcgaaga taatgttaat 5520
gtatataaaa atgaagtaat taatatacta gattcatcta caataattga aaataaaaaa 5580
caattttatt caatgagatt taatttagaa aaagataaaa aaaaaatatt aaaacaagaa 5640
ttattaataa atataaaaaa aactggtgtt aatattgtta caaaagaagg tatagacgct 5700
gaattatata tgatttataa atgtattaaa atacataaaa aaaataaaat atggccattg 5760
tgtttatcta aagatcaaga tacaattgct ttatctatta ttaatatacc atataatata 5820
tttaatatag tttatgataa taagttatat aaaataaaaa aaaattcatt atctattaat 5880
ttagttatct tatctctaatt atttaatgaa tctgattatt ttggtggaat atacggatat 5940
tcatttagtg gtgagaaaat aaaatatttg attgatataa ttgaagatta tgatattaat 6000
aatttattgg attattttta tatagaatac ataaaaaatt tatgcaaaaa gttattttta 6060
aaaacaatta atgaagtaaa attaaataat atattaaaaa tacacatggc tataaataat 6120
tttcaaatag aaaaatattt atatgaaata tctttatatt tgttatgtta tgaaaatttt 6180

```

tacaatactg gatataataa tcaaatagat aaaaatgaat ttataaaata tatatTTTTg	6240
aaataatact attaaatatt aatataatat atgctatat attagatataa aaatggaaga	6300
tatattaagt aaatatgaat taaaatataa attaaatgaa gaatacattt ttaatgagaa	6360
aaaaataaaa ataattggag atgtggtaaa aatataattt aattatttaa atctaactaa	6420
tataatggaa atagatccaa aaatagaatt ttataatata tcagatgatg ataaaatatt	6480
taacgaaaac gaattatata tatcagaaaa atgtTTTTtc ggtattataa ataaatataa	6540
tacagaaaat tctaaaaatt tttcaaaata tataaataat attataatga atactcgaga	6600
gaatttaata aataactttc ttaatattgt agatgatttt aaaataaaat taatgaaaat	6660
gaataaacat aataaaaact taaaaagtac gattaaagta caagcaaaag agttaatagc	6720
aagagaacaa aaatttcattg atcatatttag aagtatatat aattttattg aaaatattaa	6780
tttctgatat attaaatttt tatatttaat ctcaacagat ctgatgttct atatatagta	6840
caaatttgta tgattaattg atattttaaa attcaagata ttaaatatta gattctaaac	6900
tattcttctc attatcaata taactatcat aatcattttt tattttacta catacattca	6960
taattctatt actatTTTT ttatacatat ctattaattc cataaacttt ttatttttta	7020
tattaaatat ttctaattgta tttttaaatt cgtcaatact attaatatca tatctagaaa	7080
taaataatgc acctctataa ctactagcca ataaatcacc aataaaaactc atagaataat	7140
ataatttttt aaattcaaatt ttagatttta tgttgaaata aactatataa tataaaaaata	7200
ttatattaaa cataccacaa tcgggactat catattgtaa ttcaaaagta ttaaaaaagt	7260
aataatttac atttttaaat atatcattta aatattctga tagtacatca atgtataaat	7320
aagcataatt agtattagga gtactattgt agtgtttatg gctttttata gtcatatcag	7380
attcaataaa catatatttt ttattttggt ttataagttc tggatatataa cactactat	7440
taaaaaagta tgcagctttt ttatctttat caaagtgttt atctattacg caacaagtaa	7500
aatgatcatt ataaattata ggaaacataa aaaatctttt tttatcattc attaaaaaaa	7560
attttactct atcttcaagt ttatagcatc tcatagatga agctactgta gcaatatttt	7620
tatcagtttt ttcaaataaa atcaaatgaa aataatcata atctgtatta atcatagtta	7680
atggatatat acaattatat atatctcccg aacttaacca tgtagattta tcatgttttc	7740
ttgggtaagc tttaggttta ggattaaatc ccaaaggcgg tattcctatt tgagcatcca	7800
aatcatcata aattgtggca aatgtagaaa aatctcttgt tttggataat tctgatttta	7860
gaaaagactt tctcatatat actaatggaa tgcctttata ttttttagat gtaataaaag	7920

tattaatatt	tatatTTTTa	tcttgtaa	atTTTTt	agtccaaa	agaaaaa	7980
ttctTTt	attatTTTc	aaattaat	tattaat	atttggat	aaaacta	8040
cattatata	tatttcca	tattttat	gtataaat	tactttac	cttgtttc	8100
catcatcat	tatttttt	aatatag	tatttgc	agtattat	ttaatagg	8160
ttataaaa	taccatatt	tctatTTT	taaaaa	catagaca	aaattaat	8220
cagattctg	catttttaa	tttttatt	gaaatctt	aattttat	ttcattatt	8280
atttaataa	tgtttctag	ttatttca	acattTTT	taataatt	attatttgg	8340
attatagg	tttatat	aacatttg	tttaatat	atTTTTa	aaataaat	8400
aaaatat	tattatcat	taacgca	aatataaa	atataaaa	tttaaatt	8460
tacgattat	cagatatt	atTTTTg	aattTTa	taaataat	tcttttag	8520
acacaag	ataatttac	agatat	atattTaa	taaataat	tatatcta	8580
caatata	tttattcag	gtctagta	aatgtaaa	tattattag	attaagaaa	8640
acattaaa	taaatagaa	tccattTT	ttatttag	atacatct	agctatag	8700
ttcaata	atgaaact	tactgttt	ataagtt	atcaaaat	tgatgtat	8760
gatatagt	cacatat	atTTatg	tctagata	ataaatat	aattatag	8820
gaaatacc	taaataat	tatatcta	aataatat	taaataatt	tgctattat	8880
actaatgt	gattaat	taaatata	tctataat	cattTTTaa	tatcaacg	8940
ggaacact	ttgtcata	tccataat	ttagtaaa	tcactaac	atTTTTat	9000
aaaatga	aatatat	tgttattg	aatattTT	atcattTT	agtcttatt	9060
tttttttt	cttttagg	taatttt	ttctaaac	ttatctccc	aaacatct	9120
agtagatg	ttatttag	ctgtgtta	cacatctg	ggatttg	catttgtat	9180
caaaccata	tatccagg	tataattat	tttaaaaa	tgggattg	atacttctt	9240
agtttttaa	ttattaaa	atccaag	atTTTTTT	gatgaaga	taattgat	9300
tataatact	tatagatat	tcaatatt	tctactat	tttcaaca	agattttat	9360
tatataaa	aatgaata	gtacaaatt	tagttgtc	attaataa	acagcatt	9420
cttttctag	ttttcaatt	tggtattat	ccgaaaat	cgaatat	ttaagatat	9480
atgatacat	ttcaaat	caatttgc	gaagcgcaa	tataaatt	gatgattta	9540
ctgtttttg	tcccaacg	aatgtttt	atgttga	aaaatggc	tgtgcttca	9600

ctaataataa tatatTTTTat gcagtttcaa cttttggatt ttttaagtaca gaaagtactg 9660
 gtattaattt aacatataca aattctagag attgtattat agatttattt tctagaatta 9720
 taaaaatagt atatgacct tgtactgtcg aaacatctaa cgattgtaga ttattaagat 9780
 tattgatggc caatacatca taaatacatt ataattattat tataatatca atcataattt 9840
 ttatatatat ttatctaaa aggacttttt attttttata tattaataat aataaatgag 9900
 taacgtacct ttagcaacca aaacaataag aaaattatca aatcgaaaat atgaaataaa 9960
 gatttattta aaagatgaaa atacttggtt cgaacgtgta gtagatatgg tagttccatt 10020
 atatgatgtg tgtaatgaaa cttctgggtg tacttttagaa tcatgtagtc caaatataga 10080
 agtaattgaa ttagacaata ctcatgttag aatcaaagtt cacggcgata cattaaaaga 10140
 aatgtgtttt gaattattgt tcccggtgaa tgtaaacgaa gcccaagtat ggaaatatgt 10200
 aagtcgatta ttgctagata atgtatcaca taatgacgta aaatataaat tagctaattt 10260
 tagactgact cttaatggaa aacatttaaa attaaaagaa atcgatcaac cgctatttat 10320
 ttattttgtc gatgatttgg gaaattatgg attaattact aaggaaaata ttcaaaataa 10380
 taatttacia gttaacaaag atgcatcatt tattactata tttccacaat atgcgtatat 10440
 ttgttttaggt agaaaagtat atttaaatga aaaagtaact tttgatgtaa ctacagatgc 10500
 aactaatatt acttttagatt ttaataaatc tgtaaatatc gcagtatcat tccttgatat 10560
 atattacgaa gttaataata atgaacaaaa agatttatta aaagatttac ttaagagata 10620
 cgggtgaattt gaagtctata acgcagatac tggattaatt tatgctaaaa atctaagtat 10680
 taaaaattat gatactgtga ttcaagtaga aagggttgcca gttaatttga aagttagagc 10740
 atatactaag gatgaaaatg gtcgcaatct atgtttgatg aaaataacat ctagtacaga 10800
 agtagacccc gagtatgtaa ctagtaataa tgctttattg ggtacgctca gagtatataa 10860
 aaagtttgat aaatctcatt taaaaattgt aatgcataac agaggaagtg gtaatgtatt 10920
 tccattaaga tcattatattc tggaattgtc taatgtaaaa ggatatccag ttaaagcatc 10980
 tgatacttcg agattagatg ttggtattta caaattaaat aaaatttatg tagataacga 11040
 cgaaaataaa attatatttg aagaaattga agcagaatat agatgcggaa gacaagtatt 11100
 ccacgaacgt gtaaaactta ataaacacca atgtaaatat actcccaaat gtccattcca 11160
 atttgttgta aacagcccag atactacgat tcacttatat ggtatttcta atgtttgttt 11220
 aaaacctaaa gtacccaaaa atttaagact ttgggggatgg atttttagatt gcgatacttc 11280
 tagatttatt aaacatatgg ctgatggatc tgatgattta gatcttgacg ttaggcttaa 11340

tagaaatgat atatgtttta aacaagccat aaaacaacat tataactaatg taattatatt 11400
 agagtacgca aatacatatc caaattgcac attatcattg ggtaataata gatttaataa 11450
 tgtatttgat atgaatgata acaaaactat atctgagtat actaacttta caaaaagtag 11520
 acaagacctt aataacatgt catgtatatt aggaataaac ataggtaatt ccgtaaatat 11580
 tagtagtttg cctgggtggg taacacctca cgaagctaaa attctaagat ctggttgtgc 11640
 tagagttaga gaattttgta aatcattctg tgatctttct aataagagat tctatgctat 11700
 ggctagagat ctcgtaagtt tactatttat gtgtaactat gttaatattg aaattaacga 11760
 agcagtatgc gaatatcctg gatatgtcat attattcgca agagctatta aagtaattaa 11820
 tgatttatta ttaattaacg gagtagataa tctagcagga tattcaattt ccttacctat 11880
 acattatgga tctactgaaa agactctacc aatgaaaag tatgggtggg ttgataagaa 11940
 atttaaatat ctattcttaa agaataaact aaaagattta atgcgtgatg ctgattttgt 12000
 ccaacctcca ttatatattt ctacttactt tagaacttta ttggatgctc caccaactga 12060
 taattatgaa aaatatttgg ttgattcgct cgtacaatca caagatgttc tacaggggtct 12120
 gttgaataca tgtaatacta ttgatactaa tgctagagtt gcatcaagtg ttattggata 12180
 tgtttatgaa ccatgcggaa catcagaaca taaaattggg tcagaagcat tgtgtaaaat 12240
 ggctaaagaa gcatctagat taggaaatct aggtttagta aatcgtatta atgaaagtaa 12300
 ttacaacaaa tgtaataaat atggttatag aggagtatac gaaaataaca aactaaaaac 12360
 aaaatattat agagaaatat ttgattgtaa tcctaataat aataatgaat taatatccag 12420
 atatggatat agaataatgg atttacataa aattggagaa atttttgcaa attacgatga 12480
 aagtgaatct ccttgccaac gaagatgtca ttacttgga gatagaggctc ttttatatgg 12540
 tcctgaatat gtacatcaca gatatcaaga atcatgtacg cctaatacgt ttggaaataa 12600
 cacaaattgt gtaacaagaa atgggtgaaca acacgtatac gaaaatagtt gtggagataa 12660
 tgcaacatgt ggaagaagaa caggatatgg aagaagaagt agggatgaat ggaatgacta 12720
 tagaaaaccc cacgtttatg acaattgtgc cgatgcaaat agttcatctt cagatagctg 12780
 ttcagacagt agtagtagta gtgaatctga atctgattca gatggatggt gcgacacaga 12840
 tgctagttaa gattctgata ttgaaaattg ttatcaaaat ccatcaaaat gtgatgcagg 12900
 atgctaaatg aaatttaata ttatataata ttaacttaca agttataaaa atcattaaaa 12960
 tgatttttta aaatgatatt atcgatagtt gtgataatgt gctcttttat tttattaatt 13020

gcgatgatta taatattatc ttttagatat atttaatat aattataaat cgactgacaa 13080
 taatatattat tcctattcat aataatcatc tgctatatat attaagtat cattctctat 13140
 tataaatata ggtatattgt ctttatcaat cattaatatt gctacagctg tattatcttt 13200
 atatactata tttgtgtctt tgtttaataa accttttaac atagtggctc tatcataatc 13260
 ttacaaatat gatatgggat ataattttat attaataata acattagata cgttcatttc 13320
 tttcattcta gttttacgta ttgtgtcaaa aattatttca ttttctgctg gttctatata 13380
 tttatatgtg ttatgaatag attcgataga tgatgatttt aataaatcaa atataacatt 13440
 tattttacct tgtttatctt ttataatc taatatttct ttatctacag attttctggt 13500
 gttggtatat gatattaaaa aatgaacgtt aacatatcta tattcttggt gtaaatcttt 13560
 atgagaattt aatcttatag atcttcctat tatttggttt aattctgatt cattccacgg 13620
 catatctaataa ataattatat cattaataca tttgaatgat atgccttcag atccagcgta 13680
 agaaaatatg caaactttta cttttttacc attattattt tcataattat tatattcggt 13740
 taattcatta tctctagttt ttaaagtttt gctagaatat tcaatataag aaatattaaa 13800
 acaattaaaa taacatttta aacttgatat tccttcaaaa ttaactaaag gttcaaatat 13860
 taatactttt cctctcgaat ttaaaattat ttacaagtt tctatatatt tacacgaata 13920
 ttgatataat atattataat tatttatatc agtgattggt aaattagttt ttatttttat 13980
 attatcattt ttaaaacttt caataaaaga ttcagagaaa ttaaatattt ttgtaaactc 14040
 ggaaaattca gcaagttttc ttttaatcat atcattatat tctatattat ctaaactctc 14100
 ttttatttta agatcataaa aagcaaatga agatattaat cttctcatag tttttaaac 14160
 acctaatcca gttttataat catatttttc tgccatatta tataatttag attgctcatc 14220
 tgacataatt atattatgat aaaatatatt tttttttgca tatccatcta tataatttgt 14280
 ttctgttaaa ctatctgctt ctattaatct tttataagaa catatagcta ataagtgttc 14340
 tcttaattcc ttaaaattaa ttaactttcc attatttata tattcttctt ttatattcat 14400
 aacatttggt ctaagtaaac ctattaaatt attaaattca gaaatattat tagttactgg 14460
 agtagcggac atacataata ttttattatt ttcgaaattt gctaatttta ttaatttttt 14520
 ataaatagga gtaaaatttc tttcgttatt atctttttta acagttcttg atattaattt 14580
 atgaacttcg tctattatta ttagtaatct acttttttta ttaagagaac tttctataga 14640
 tctatatata ttattaaatt tatctaaact agatgacgaa tcataatata taaattttat 14700
 attactggta tctgatatat atgatcttat agtatttaac caaggatcta tgtataatga 14760

```

ttttttaata aatattaaaa ttatccatct tggaaataat tcttttatat attttataat 14820
atacacagca gttaatgttt ttcccatacc agtatcccaa aataataaca tactattcaa 14880
attttttaat cctatgaata ttctacttac aaaatattga taatcttgta atgtaatttc 14940
agtatttgta atattattca taattttatt aggcaaatgt tgtgttttat caagtgcata 15000
atttatatgt ttaccaacaa tagaatctaa tgcaaacatt tagttatata aaaaataata 15060
tttatattaa ctttaagatgt ttcataatth tatgtctgtg atgtggagtt aaaacccaag 15120
atattgatat atctatatca ttaattcttc ttttgaatct atgtctatca atcgcaaatt 15180
tatcccagta taattttcga gtttgttttg cagcatataa ccaaacatac ataatgtgga 15240
gttttggtgg ttccgatgaa aagcgtactt ttttcgacgg tttatgtttt aataatttat 15300
tattattata taattttaaa ttataatata tattattttt aaataaataa ttataatata 15360
tatattgtat ataattttta tttattatat atattaattt ataattatat aatattataa 15420
tatattcttc tagtatatat ataaatatat tataatatga tatatattha tcttctttaa 15480
aatgttgata tttttctata atttttacgt tcatatttat aatttattha tctaataata 15540
aaatatatat agtttaatta atcattaata atgtatgtat tttaatatgt aatattattt 15600
ataatattta tatgtaaaat ataaatagca tatctatgaa aatttattht ttatattaaa 15660
ctataatgaa tcataatatt aaaatcgaaa ataataaata tagtgttaaa gacatattha 15720
ttgcattaaa ttataactaat tatgaagaat attttgaaga taatgaagat agatattatt 15780
cacttagatc acttaaaaaa atatttaattg aaaatgaaga tgaaaaaaa ttaattaaat 15840
ttttaaatga taatacatth gtagatatat ttacttttat taaaaataat aattatgaat 15900
ttaaattagg tgagtggtht attgatatat ggtatcctth atttgaaaga aaagatgtat 15960
taataactaa taaaatatta tactttatad attatggaat atcagggggg gatactcatc 16020
ccccctaga aaaatataga ttaatgcgta aagattthaga aaaaatatta aaaaattata 16080
atattaatta tataaaaaa aaatattata aaaatatcga tatagattat aattttttga 16140
tcgatgaaat aaaaaatatt actcctaata atattattca aaaaacgtgg ataaaactat 16200
ctgttaaaaa ttttaaaaaa ttaatattaa aaataagaac tgcaattgct gatgatataa 16260
gagattatta tataacttha gaagaaatac tatatgatta ttcaaaatat ataaaagatt 16320
ataaattaaa acaattagaa ctatccaaaa ataaagaaat agaacaatta aaattagaaa 16380
aggataaagc agaaagaaga tctttgagac ttaaagaaaa atttatagaa gaaaaaaaac 16440

```

tcagatcgga tcaaataatt tatatatcga cttctaaatc ttatgctgca caaaatagat 16500
 tcaaaatagg tgggtgtagaa aataataatt tgataaaacc acgtttgtca acttataatt 16560
 ctagatcagc agaaggagat gaatggtatt atacatatat aaaaaatata aataattaca 16620
 aacattttga aaatagattt tgggtctgtta tgtcatcttt tagagataaa aaagataaag 16680
 aaattatagt atttatattat aacgatttaa taaatatatt taattttata tctgaaaatt 16740
 ataatgaaga tattgaatat tttaataaaa atgttaaaat atttattgat aatatagata 16800
 atgataaata ttacataccc gaacctttta acatagaatt agttaatata tgttctatta 16860
 aaaatggcaa aattgataat aaacttattg tagcaacaaa agaaattata atagacgaaa 16920
 ttaaagatta ttttaaaaat aaaattaaat ctaatcaata tgaaataaat agaaaagaat 16980
 taaataaaca tatagataaa aaatataaat ttaataaacg tgatttatgg aatttaacta 17040
 aggaagttaa gtctatatatt aataatatta ttttaaaata ttaatttaaa atctatttat 17100
 atttatatct aataaataat acatttatatt attattattt aaattgatat aaataaatat 17160
 taatattaaa atatgaactt agatttttta tattaaatct ataattattag aatatatctc 17220
 ttctatatatt tatattaaaa attaatatat attataacaa tatatatcta acgccattat 17280
 tattaactat tacattttta tcatttatcc tagttgcaac gttttcaaaa ggaccatata 17340
 acacaaatcc aatttttaat tcatatataa aaacttcaaa ataatgtatt cctaattggat 17400
 caaaatcctc tgggtgtaa atcataatctt gtatatattt attttctctt ttttctttta 17460
 tagtcattat accactacat acagtacttt catcaggtct taatattata tctgttaatg 17520
 gtctatttat agaaaaagat acaaccaa atcattaaaatc tctaacagtt atagtaaaaa 17580
 tcataaattc tggttaatcgt aatgttttca taggataatt acaatatatc ttataatttt 17640
 ctatatgcac ttctctaaaa ttattaaaa atcttattgg tgaatttctc catataaata 17700
 ttattatctc taatgatcct attaaatcat aatttaaagt catatgattt acggaaacta 17760
 tactattata cgtagtatt tcataagatt gcattctata atcttggtgt gtatatcctt 17820
 tagctacaaa taattcatta tcatttaata tatatccac agatgcgtga tcattacctt 17880
 ttattgaaga atttatatta ttagtaaaaa tattttgtat ttttaaaata ccaaactctg 17940
 catttataaa actgataata tagttactat aatatggatt agatatttct atactatatt 18000
 ttaaaaatct attatttata ttatatcat cattataaca aaaactagaa taatttgaag 18060
 atgtaatacc ataaccattt ttataaacac gcatagtacc atttactgtg tgtatatcaa 18120
 atcttggttt ttcatattt aaataattca atttatttat tagtgtagga aataaattag 18180

tattttgtat ggaatttata tctaataatta tatttttttaa taaataattt gaatctgtta 18240
tatatgacaa tattttctgga tatatataag ataattgaaa tataatttga gttatatatg 18300
atgatttgtt agcggattct attttatatc ctactgtatc cataaaacat ccgtaataat 18360
gtaattcttt cattacaaca tcaaaatatt tttgaattaa atcatcattt acttgataaa 18420
ataatatata ttttgcaaaa attattacat ctaatatctt agatccttct attatagaac 18480
ctggtaaaag tggagaatta taagtataac ttccatctga ataaaaacca ggagtattat 18540
ttaatacttt gcaagataat attaaagggt gtgtgttaaa tattaataaa tttctattat 18600
attcatctgt attaagttct atatttaaac tatatttttc gttaatagta tacataatta 18660
tatatatcaa tgcattagaa taaacatatt cattatTTTT atattcgaac atatgcttta 18720
attcattatt ccattttata aataataaaa atatttccgt taatacttct ttatttaatt 18780
tagtataatc taataaaaaat actgacatgc aaatatTTTT aggtatactt atagctttat 18840
aatatttatt agtgatagaa acattggaat tatttaatat atttgataat atatcggttaa 18900
atatcgaata attatcagga ttaattgata ttcttgtgat atatttaaaa taaaatgatg 18960
ctatatTTTt ttcttcgtca ctattataat ttatatTTTg tatctttatt aatgataaat 19020
gatattTTTg taataaatag tcataatttg tttcatctat ttcttcttct tcataTTTT 19080
ttttataatt atataatatt aatactaaaa ataataattac tattagtatg tatataataa 19140
tcatttatta ttatataata atatataatt gaaaatttat taaaataatt taataataat 19200
taaaaataat atatattTTg atataatata taataattaa ttaaaatgga cgaaacaata 19260
aattttaata ataaatcatg ggaaataaaa aatttaatag cttaaagggtg ttttggaaaca 19320
gtatataaat tatgcgaaaa aaatgataat aataactgtt acgctattaa aatagaacca 19380
tcggataatg gtccgttgtt tgtagaaatg cacttttata aaaaaataaa taaaatgaa 19440
ataaaaaatt ttattgatgc gaaaaattta agttatttag gaataccatt actatatcat 19500
aatggtatta taaaaaaga taatatagaa tatagatata tagtaataga ttattatgaa 19560
tttaatttaa atgatatatt aaaaaatat ataaaattac ctataataac aatatataaa 19620
ataactatac aaatattata tatattagaa tatttacaca aaaaaaata tacacacaat 19680
gatataaaaa aaaataatat aatgtttaat tcatcattaa cttaaagtata tttaatagat 19740
tacggactaa tatataatat gaattcctaa caagaatata atataaaatg tagtaatgat 19800
ggaactctag aatatttacc attaataact catttatTTg gcttaaaaaac atacatggga 19860

gatatagagt ctctgatgta taatattatt gaatggtata gtggaagttt gccttggatt 19920
aaatataaaa aaaaaaatgt tatattaaaa aaattagatt ttttcaacac ttgtttaact 19980
aattcaccaa ttgaaatatg taaattatat aattatataa aaaatgctcc ttctatatat 20040
aattataatt ttataacctga tcatgataaa ttaattaatt attttgtaac ttatttataa 20100
tctaaaaata taaattttaa tgataaatta gttttttgta aataaaatta atatttttaa 20160
atatgtataa atatctatac tttataataa tatcattatc aaaataacctg gatttaataa 20220
taatagtatg agttttacta taacattcga tatagaaaaa aatttatgta ttttaaatta 20280
tctttcgtac ctaactgata taataatgta attggtataa atagagctct tgaaattaga 20340
tggaattgata aatgtaatga tataaaattt gaactattac acaatagtaa ttatactata 20400
tttcaaaaata aatatatttt atttatctag aaacaattgg ttacaaatat ttaatatag 20460
acataataat gtatctacta gagtaacaaa caaagaatgt ataattaata taaatcagga 20520
atctgtggaa tttaatataa aaaataatga aattatatta tatttagata aagattttgg 20580
atttttacag gtaatacctt attttatgat aaatatatat atattctaga tgtgattcta 20640
taatattgga tacttataaa atatttatta taatttttat aattatatta tataaaatat 20700
ttattttttt gaataaagat ttaataagta tcatcatagc agacatttga tacatttctg 20760
ctaataattat catcgtttaa tccagtatat tcattaccaa tatttacgaa catagatcta 20820
acataaataa aaaatgccaa tgttattagt attatattaa aataagctgc tactgcatac 20880
caagttgaat tatcgtcata tatataattt tgaataatta taaaaagtaa tgaaataata 20940
aaagatatta ataatagtat taaaatatat cttacggcgt tatttgatat gttaattaga 21000
gtttgtgcaa aactaattcc cgcaatattg ttcattttatt gagttataaa aatgaatcat 21060
attaaaaaaa ttttaaaaat aaaaagtgat aaagatatat taaattacat agatgcatta 21120
aattataatg atttagaaaa tataatacag acattagata atagttatta tgataaagaa 21180
gctttaatta gtgataaaaa atatgattta ataagaaatt ttataaataa taagtatcct 21240
aatgaatcct tgtgtaaaaa aataggttat actccggaag ataaagtacg attaaagtat 21300
tttatgggta gtgaaaataa aacttataaa tcagataata aattattaag ttggataaac 21360
gaatatcata ctaatatatt agtattatct gcaaaagcag acggaatatc agtattatgg 21420
gatataaaaa ataataaaat atatagtaga ggtgatggta aatatggaaa agatataaca 21480
cattttatta attattttta tttttcagat gataaaaaata taaataacaa tgatatattt 21540
aaaaataata taaattttgt tagaggtgaa ttagttatag ataaacctga aaatagaaat 21600

atagtagcag gtcaaataaa tagaaatgaa attgataaag aaaccgcatt aaaaatatat 21660
 tttgtagcat acgaaatatt agaaccaaga atgacacaac tcgaacaatt tcacaaactt 21720
 acagagaata gtataagaac tgttaaatat gattctgttg attataatat ttcatacgaa 21780
 caattaagtg aaatatataa taattatacg caagaattat cgtattacat agatgggtatt 21840
 ataataagaa ataataatth aaatccagtt attaaatctg gtaatccacc ttgggtcaata 21900
 tgttttaagg aaacagataa aatatatatt actactgtta aagaaatcaa atgggatata 21960
 tcaaaaaaaaa atatatatat acctaaagca atattagagc ctataattat agataattcg 22020
 actattaatg ctgttgcttg tcacaatgct aaatatgtaa ttgataaaaa aattaacact 22080
 ggttcaatag tagaaatagt aaagaaaggt ggagttatac cgataattaa taatgtaata 22140
 aaagaatcag atatagaaat tatattaccc gatgggtattt tatctgggtg aaatattata 22200
 tttactgggtg ttaacaaaga aagtgaattt aaaagaatat tatacttttt taaatcattt 22260
 ggatataaaa atattaataa aacaataatt gataaattat atatgttagg atatgtaaat 22320
 atattaaaaat atttagaaaa agatattaat atagaagaat ataataataa aaaaacttat 22380
 attaaattat tggaagtaat taaagatata aaaagtaaaa attataatat cgtagacata 22440
 ttaacagcat tatctctaga tagtatatca aaatcaagag tttgtgctat ttataatgag 22500
 tttccagatt ttttgaaaga taaaaatgaa aaagattata gttcaataaa cggatttgga 22560
 aaatctatat caaaaaaaaa taatgataat attataaata attacgaata tataataaat 22620
 attttaaacg ctttaaatat aaagtattaa tttttaattt atacaattaa tttttatata 22680
 tttcgatata aataaaataa ataatttaaa ttcactaaca ataataaat acaagtcttt 22740
 atatttttat ttaaaattaa aaatgttatt gaatatacta tattattata ataataaatg 22800
 tccgatatta ctatatatca atcagcaaat atcgcagatt cgttttttta tgatatatta 22860
 aacgattcta cagaaaaaaaa taataaatat ataatattha tagattggaa taactctatg 22920
 gttacttata aaaatgatgg ttttgtaata ttacgaaata ataatgggta ttcgcacgat 22980
 tcatataata atataataaa aaataaaaac tgtaaagggt tttatataat aaataataat 23040
 tctagcaatt cagaagatat acataattac gttgaatcat atgacattga tatagaatat 23100
 atatttaatt taaataaatt agatcccaag atatctgata ataataatat taattataat 23160
 atagatthtt catatattht atcaccgaaa tataaaaaata cgcgttatca taatataata 23220
 gattcatttht taaatgacaa ttttataaac attaatccgt taataaaaaa caaactatca 23280

atatatataa taacatctaa tatgtgtaat ataatcgata ttttattatt ttcaaataat 23340
 caatatcata tattttatta tcaaacatac gatgatgaaa aattatttat taaaaaatat 23400
 ggtaaatcac atcataataa aaatgtaatt tattgctggag taataaatga tactttaaat 23460
 aaaataaagt cagcttgga ataattttga aaaataatat aaatttatat aatacattat 23520
 tacaatggat tctaattgta tagaaataaa aaaagaagaa gtaaaattaa ttaattatgc 23580
 aaatttttcg acgttttaaaa tagaagaacc acactatgat ataccaaaaa ataataaaag 23640
 tatatatagt acaccggtta aaataataaa taatatagaa gaaactatac atgcggaaga 23700
 ttgtatttca gaagatataa caacatataa tatcaatgat gataatgaaa atatatataa 23760
 tcctacaaca ataccaaaag ttaaaaaaaaa agtaaatata atattaaata ttattttctgc 23820
 aattatatat atcattgttt tgtaataat gtctcttata acatttaaata taatattatg 23880
 gtaattatit agataataat ttagacttta ctctgttatc caatattaaa tttatatatta 23940
 ccatatgatt ttttttaaat tctaaaaatg tttttacgat atgatcatta acatttttat 24000
 tttcttctgc tgacacagca tcagtataat ttttaacaca attatcacat ttgatcgaat 24060
 catttggtat tatatttata ttatcataat ccatatcaaa aataaaatct gccattttaa 24120
 tatataatat tattaaaaata tattaaatgg aaaacaaaaat agatataact attttacatt 24180
 ctttagtatc attagacaat tataataaaa aaatattata tgatgattta tcatcaacta 24240
 tatacataga taaatataaa aatcaattag tcaactcaag taatattagt tatataacta 24300
 ttttattaat aattataata attataatat taattttatt aatatttttt tatagaaaaa 24360
 actaccacaa atatatttat aacacatata ttaataataa ttacgcaaac atatattatt 24420
 ttttatatat tcattaaaaa taatattatt tggctctaat ataaatttat tattagattt 24480
 aatcaatgat ttattatata attcaattat atattttatt catatttctg gtttatctgc 24540
 tcttttattt agtttgctat aattgaaatt tattacataa tttatattaa gaatatcaaa 24600
 tattctatct aaacagaatt cgtaagatat agtttttgta taattatttt tatatatata 24660
 ttgtgtaaaa tcctcaaaaa ttatattaat tctaaagata tcgtcttttag ttaatatata 24720
 attattacca tccgatagag acatattaat taatttatgc gtagttctat aattttttat 24780
 accttttgat tttaaatatt cagaacctaa cgcagttggt atactttttg tatttaaatt 24840
 attatcattg attagtttta gaaaaccatc tactatatca tatgaaatac tggattttga 24900
 tatttctttt aaaacattat tacaatgtat agttttattg tttgaagcac tacttattgt 24960
 tgttattctt ttgacgatg ttgtataaca atttgagcaa tcacaacatg aatatatata 25020

```

tttatttttt attatgttaa aagaattaca atattttacat tttatattat cgctcattta 25080
tttatattat ttattataaa ctataataat ttgaaatat tattattata ttttaaaaaa 25140
tggataaata tatattaacg aataaattat atgatatatc aaattattat gcattatatc 25200
tatatacaga tattaaaata ataattaata aaaataaaaa atttaaattc tatgatataa 25260
aatcattaat tggatttgaa atagaagaat ggataaatga taataataaa ttattatctg 25320
ataataatat aaattttatt gaaatatcac acgacgatcc tattatacat ggttattata 25380
cagatttaaa aaatataaat atgatattaa tattatttaa tattacagat tatatagatt 25440
atatatctaa taaaattttt gatgcatat ctgacaattt tataaaaaat aaaatgcaat 25500
atatagaaat aatagaaaca aaaaataaat ataatgatga agtaattaag ttagaaaaat 25560
atactaaaat gttagcatat gaaaaaaact atattaatca ataagttatt gttaattttt 25620
tatcattata atttataggt gttttactat ttttccactc aaatatttgc ttaatataat 25680
cccataattt gattttgtta atattatcta tttttatttt atttaataat tctattctag 25740
atatttttaa attattattt tttatatatt catctagaat attagttatt ttttctttaa 25800
tttcatttaa ttctatttct ttatcattta tgataatttt atttggtata ataggtttaa 25860
gattatacat ttcagataat ttgtttttta ttaaattatt aatataatca tatggttcat 25920
taatatTTTT aattactaaa ttaaccatat ctaataaata ttgtaatgt attacaaata 25980
tttcttttct ctttttatct ctaaaattat ctaaaagatc atgaattaaa ttttctgttt 26040
tagatatatt aaatactttt tcataataac atatataaaa ttcactttca gtgttatgtg 26100
aagaattaaa atttgattgt ctagaagata aattatcagt ttacctact ttaaaattat 26160
ttatcatagc ataacgttct gacgtagcta tataaatata accattttta ttttttctt 26220
taacattatt tataaaattt ttcattttca tattaaatct ttgtaaatta ttattttctt 26280
cttttaattt taataattct ttatttttaa tatcttctat ttcttttaat ttatatattg 26340
atatataagt agaattttca aataatattt tttctatttt tatataatat tttctaataca 26400
ttttagaatt attgttggtc atcatcataa ttgattcttt gaaatcatca actgataata 26460
ttaaccatgt tttttgaact aacgcatgct tatcatataa ttttaattca ctttttaata 26520
tatttatatt atttaataa ttttcatcat attttattat attatattca atattattct 26580
tttttaaaaa tgatctataa tctttcttat attgtatata attgtctaaa ttataagtg 26640
ggaaacattt cccacttg 26700

```

catttttctt attaaataac ggaaaccata tatcttttaa ccaagaacct agttctatat 26760
cataattatt atacgttata aaggttgata catccattaa tgtgttattt tctatatatt 26820
taattaattc tttttcatta tcacattcat taaatatatt ttttaagtga ctaagtgaat 26880
aatatctatc ttcattatct tcaaaatatt cttcataatt agtataattt aatgcagtaa 26940
atatgtcttt gacgctgtat ttattatttt cgattttaat attataattc attattattt 27000
ttattataaa aattaatatt tcaatcatag tttagatata tttaatatat tatcgttaat 27060
tttttatcat tataatttat aggtgtttta ctatttttcc actcaaataa ttcctttaca 27120
tattcccata atttatttct attaatatta tcaatattta attcattcaa taattgaatt 27180
cttgatattt ttaaattatt attttttata tattcatcta gaatattagt tattttttct 27240
ttaatttcat tcaatttaat agaatcatca tctatattta ttttaatagg aattacaggt 27300
tttaaattat acatttctga taatctattt tttattaaat tgttaataata atcatatggg 27360
tcattaatat ttttaattac taaattaata atatctaata aatatgtata atgtattata 27420
aatatttctt ttcttttttt atctctaaaa tcttctaata aatcgtgaat taaattttct 27480
gttttactca tattatatac tttttgatag aaacatatat aaaattcatc ttgatctatg 27540
tgtgatgaat taaaatttga ttgtctagaa gataaattat cagtcttgcc tactttaaaa 27600
ttatttatcg aagcatatct tttagaagta gcaatatata tataaccatt tttatttttt 27660
tctttaacat tatttataaa atttttcata ttcataattaa atctttgtaa attattattt 27720
tcttctttta attttaataa ttctttattt ttaacattat tattgtaatt attaatatat 27780
tttgtatatt tatacaataa tccttctata aataaataat attctctaata ataatgtgct 27840
gatttagtat ttaatctcat aattaataat ttaaaatttt caacagataa tattatccat 27900
ctttttctta atatattatt aggtgtaata aatttgattt cattttttta ttttttattg 27960
gttaatacat attcgtgttt ataatacaatt tcaataaatt taatattata attattcaaa 28020
gaatctatta aatttttctt ataaccttta aacatttcag gggggggctg gctccctct 28080
ggaaaataat atataaaagt gagaatatca ttagttatta acacatcttt ttcttcaaat 28140
aaaggatacc atatatcttt aaaccaagaa cctaacttaa aatcataatc attattagta 28200
ataaaagtaa atatatctac gaatgtatta tcatttaaaa atttaattaa atttttttca 28260
tattcatttt cattaaatat ttttttaagt gatctaagtg aataatatct atcttcatta 28320
tcttcaaaat attcttcata attagtataa tttaatgcag taaatatgtc tttaacgtta 28380
tatttactat catatatatt aattgtaaaa ttattataat ttatagaatt cattattatt 28440

```

ttttataatt aaaattcaat gtgaaattac ctaaaacaat aacgatatta aatattcctt 28500
ttattatttg gtatgtattt tatcttttaa taatcaaata tatcttcttc tttagttata 28560
ggtaattcta cattatcttt ttttaatgaa tattgattta atatcatatt ttcagattta 28620
gctatattac gcataaaaaat attaaatttt ttagaacctg taaaatgcat aatagcagta 28680
tatttttctt tgttattaac tttatttatt tcaagaataa attttttacc ttgccataaa 28740
aatacgccag aaaatatatt attacctttt ctaattatat acattaattt tgctattttt 28800
tttaattctt ctaaaaattt atctatagta aaatctataa ttaatatatc aatatcttta 28860
gaataatcta aacctctagc atatgatcct aatatatacc attcacattc actacttaaa 28920
tttatatttt gtttcaaadc atttataaaa tttctactaa ctggttccat atctttgata 28980
tattcgatta ttttaatttc gtgaattggt aatattccca tattgataat attatctttt 29040
ttttctatta aatcatttat attttttata ttttaatttt ataaactttg tgctttttta 29100
ggacctataa ataattattga agttaaaatt ttaatatatt tatacgaaga attattttct 29160
aaattaatga gtttttcaac cttattagta ctttaataatt catatattat atctgaaatt 29220
gatgttccta ttgattttta atttttatat ttttgaatta tattttcttt agattcgttt 29280
aatataaatt tattattttac atttttatat ttaaaaatta tcacaggagt attttgata 29340
acataggcgg catttaaaaa tgctttatat tttatttcat taagtatatt atatatatct 29400
gcaaatttat ttaatactag taatatttta tgcttattaa tcacgacat aaaattatca 29460
atattcatat ttgttttaat atctaaatat attttcattt catccattat agattgatca 29520
ggaacttcat ttcttctttc taatatacat ggaatattat acaacgttgc atatgttttt 29580
aaaatatgta atgagctaag atcgtcttta taatttttaa aaatgtttcc ttttccaata 29640
gcttcgtgtg gtttatacga agataatggc aaaccacacg aatcattaag atgaattaat 29700
ataattttat ctaatcctat taacaaatca aattttgcaa gataatttat cataccttta 29760
actgtattaa tattgtaaaa tgtaacaaat atgtgtgaag tgtctataca aaattttatt 29820
cttttttttag cattagaatc taaattatca tataatattt taaaatcttc tgtttttagca 29880
cccaaagtgc ttatatcatt tgtagtttca aatattatat gattaaagta gttattatct 29940
aatatattat ccaaaacttt acaaaattta ttttaattcat ttgcgacata ttttaatgat 30000
tcttcttgat ttttattata atataatgac aaatgtacaa cagttccaga attatttatt 30060
tccatatttt gtaaataata taattctttt tttatatttc ttaaagcaac actattttta 30120

```

tcttttagcta tattaccaac atatttagaa tgaacaaata ttgttctacc tgtataagat 30180
ttattttaaat attctgttga ttgataacta tgtggtgcac cgacaaaaaa ttgtaaagga 30240
catttatatt tatctaaata ttctttaatt gtatgaaaac cgatatattt attgtttaat 30300
atattatfff tatcgatatt attcatcgtg gttatatfita acaaatggaa aatttacatt 30360
tattaaatta acattatgft taatacaaaa tctatcatga caattattta catgtggaca 30420
gtatttatfff ttatataaaa ataatttatt atgatgtgga aaaaaatgat ctgaaataga 30480
acacgtagga atataattat ctacaacatt tccattatfff atatttttat taaataaatc 30540
aaatgtcgt aatacatcat ttccataata ttttttcatt ataataaaat ctaaatatat 30600
tatacaacca aaacatttgt aaggttttatc tttttctfff aatgaacaat atgtgtgatt 30660
atcaaaacaa ttatttatat ataattgaca ttcgftatta aaaataatat ttaatccgft 30720
tatactaaaa taccatacca tttaatttaa atgtatttaa taataatata ataaaaagft 30780
aatatatfff ttatttaata cgaatatatt atattataat ttttttctaa taatattgtg 30840
ttcagatata ttttttaaat atggtataaa tttttctata tttttaagtc cgtgtattga 30900
aggaggtatt attggataat gattaggata agaccattca tcatcactgt cataataaca 30960
atcgatataa taattaaaaat taccaaatgc tttaatatca ctaaataatg ctatcccagc 31020
atattcttcc atcatatcta ttaaattagg agaaatcaca actctaccta tatcagtatt 31080
attattaatt attaaaaact taaaaatata aaatttacct atttttatfff tattagttaa 31140
ttttaaatca ttaatatfata gatttatfff tgtattfata taaaatatta taggtatatt 31200
gttatatgat aaaatatctt ttccatatfff atgaatatca atatttctat ttatatcata 31260
tttattatta gaattagaat ataatatfff ttacactca tcattgttat caaaacattt 31320
taaattatfff atattattaa aataatattc atctaattat tttgattfff cgtaattata 31380
aacaaaatta tcgtaaaaat tatatatfff aatagattfa atatttgaat tatctctagg 31440
aatttcgcca tctacataag taccattcaa tctgtataa tctctattat taattatttg 31500
ttttatfff cttacattfa tgttttcaat attactccac acatatccat tatttatattc 31560
cataaactta tattttaatt ttgaatttat taatatataa ttatctacat aaatatctga 31620
taatgtfataa atatataatt ttttattatt tagaaataat atatctgcat ccattataat 31680
atftataaat taaattftaa ttttcaaaaa acttattfata aatagtattt ttctacaaac 31740
ttttgattfa ttaacattag atatttgftt tttttttfata ttttttaaat attttttttt 31800
tattggagaa cataattfff tattfataaaa taattcatct atatttgaat ctgattfata 31860

```

attatcattc atttttatat ttgaaaatat gttagctaata tctttactaa tattttgttt 31920
ctccatttaa ttatttatta ttatatcttc aaaataacta atcattatta ttttctaaat 31980
ttaaatatgt gtcatttatt ttaatatcag atataggagt attaacattt actgtaatat 32040
atccattcgg aattgtcata actggattat tacaattatt atatcccttt tttattgcat 32100
ctaaacattc taatacactt attaaaacta tatcgccctt tctaaaacca aagctattat 32160
cttctaatat atctccatta tttgcatatt ctctgccttt aaatataatt ccagatattt 32220
catttgggtgt tttgccacta aatattctta ataatttatg acctatgtct gtatccatta 32280
attcattaaa tatattttaa gatataaagt tttcatcatc taatgtattt acattaatct 32340
tattaatagt ttcattcaaaa ctatatggaa tatcagcatt atcacatatt atttttctag 32400
tatttggatc ttttaaaaaa ttaataaatt cgtttacttt gtctttatca tacatagggt 32460
tttcattttc tttaatattt tctaaagcag ataacatagt ttgtattgtt tctgaattat 32520
atttcgtagc tcttgctttt atattataaa tttctctttt taaacaatca ttaattttat 32580
tgatattatt ataggtaaac tcattatctt ttaatgtatt atatttagat aataataaag 32640
gacaaatatt ttttaaaatt aattctatta tatttttttt catatatatt aatttattaa 32700
tatctctttc tttctttttt acatcattta aaatttttat agtttctaaa taatttatta 32760
tatttttttt tataaaaata aaaattatac atcgaaaaat agcaataaaa tcttctttta 32820
ttataaatat taatttttca ctatgatcat ataataaaca aaaatgtaac cttaataaatt 32880
tatcgtgtat aaaattttta tattgatttg gtatagacaa atcgttaaat gtatttttta 32940
ttttattaaa aatcatttta taatcattta aagataaatt agataattcg gtgtgtaaaa 33000
aattatataa ttcattatat tttattttta ataatttaat aatttcttcg ctacttttat 33060
tatctacatc tatatgaaac gaacatttaa attcttcaaa attttcacat tttggtatac 33120
ataacttaat ataagataat atagaatcaa ttatggaatt tattatcttc atttattata 33180
ttattattat aataataaatt ctaataaaaa aattatattt tatcacttaa catgggaaaa 33240
ttttctaaat ctgttttatt tgttttaatt atattttttt tcatatattt taatataata 33300
attaatattt ttataagtga aaacacaaac ataaatatta aaattatata caaaactacc 33360
aaagctaata tttcattaga ttgattatta taattttcga tagttgattc gtgattaaat 33420
tctgcaaaat cattaaaagt tatacgacta ttaataatat cttttaaagt aggtttatat 33480
ccaaaatttg gattaatatt atttggttct attgttttta ataattcatt aatattattt 33540

```

```

tttghtaatag tatatatatt attattttatt ttttcaatcc cacctaatat attattatat 33600
atgcattgat tgtagtatt atcattacat gatataaatc tttgttcatt ttgcattttt 33660
ccttttttta taagtctaga agtataatat atttctgttg attcagtatt ataataacca 33720
ttaaaagttt ttttttttat actaaaaatt actggaatta attcatgaca aaagtcataa 33780
tattttattat aagatgggtt atattcaatt atatctacat ctaaacattt ttttactata 33840
tataaattcc caactacatt tacagatata gatttatcgt ttaataatga tgatatacaa 33900
gaatatgcat ttaccttgca tatagaatat aatcttaata tcatcgaaga ttttttttcg 33960
cacatttcat gtatctgtga tttctctgtt tgtattatat cactaatata ttgtatttta 34020
cttcataat tatatatttc tcttttgtgt ctatgtaaat ctaaaataact caaaatttta 34080
atagaaaatt cgtgttcgtt tgtattaata aaattattttt tatttaattc atatttcgat 34140
ttactcacia ttaaagatat aggattattt aaataattaa atattatgtg catattatca 34200
ttatttataa ttatgtcaac gtcaattgca tcactatcat tatattcatt tttagcatta 34260
ttgtctatat ccataactaa tacatctgaa ttacttactt gacaatattt tgtataataa 34320
ttacaattat atgtattagc aatattactt aacatagtag ctttgcgata atatacttta 34380
ccagggtttta aatttatata ttcttgata actgtattat aatgaaacgt ataataaacg 34440
caaaaatggt tggcttttcc atatttatat gaattatcat cttcggtata tattaatggt 34500
ttatttttaa aaacgtgagt ttattaaca ttatttatat cattatattc tactatatta 34560
tgatgaataa tatattctgt tttagcccaa ttgagatata tagaagggtg ttctgtgcat 34620
ataaaatcaa ttttgtaaa taatatagca ttagttgaat atgatttttc atttaatggt 34680
cttaataata ttttggttt gatagggtcg atattattac aatttaatat atctggtaat 34740
tgtaatacaa catctgaact ttgtttatca catataaatt gagatttaat attatatatt 34800
gtaaatataa atataaataa tgtagttttt ttaaacattt tatataatta tatatctcaa 34860
tctcataaag tataatatta aatctttact ttatttttca ttattgtaaa ttatgggagc 34920
gtccgcaagt attaatacta ttgtgtctga tataactaat agagttgaaa attcattaat 34980
tcaaacagca aatgcctctg cacaagcaat atgtcgagta acaattggaa gtattagttt 35040
tagatccaca cagggatgta ctatagaggt aagaaattta tgtagtgccg aagctgtagc 35100
acaagttgac gctgtagtaa atgcaactat tgatttttat aataatttaa cttttgaaca 35160
aaaacaagaa gcacctacgt ggtttacagt agcttatgga ataaatacta ctgtaactac 35220
tatcgaaaat gatttttagaa atttagttga acaaagatgt aaatctcaag ctgtttttaga 35280

```

tagtagcata acagttgata atattttagt taatgattgt agagcaccag gaaatgaaat 35340
 agttagattt acatttggtta attctggaac ggctgctgga caatgtgcaa tatctgctct 35400
 attagattta caagtagcgg gttctaataca agtaagtgtc agtcaaagtc aagggtttaaa 35460
 tataggaaat ataataattat atgtagcaat agcaattatt gttattgcaa tatcatatgt 35520
 ttttaataaaa ttttttggtta ataaaccaac aataaaacaa caaattagtt tagaattagc 35580
 taaaaatgga gcagtgctta gtcaattaat acaattatcg agatatgtat ctaaaataga 35640
 tgatagagat tgatatattt tgaaaaaata taaataaaga aaaataaaaa tggagaatat 35700
 aaataattat atcgggggttg ttaaaaaatca aaatttgcac aaagatataa aaataaataa 35760
 tatatatatt acaatattag aagatagtaa atattattta acagtcgatt attgcataga 35820
 gaatgaaaat attttaaaat ataataataa atcatatttt caaaaaattt atttagaaaa 35880
 tttaaaaata aaaagttatg aaaagaaaat atattataat gataatatta caaatatttt 35940
 acattgtatt aaatataaaa tattaaaata aatatatgct ttcgctcaa ttattaaaat 36000
 tataattata tatgtatgat attaacttag attttaattt aattgttttc aagcatttat 36060
 aattttcata tattattgta ttatttgga tataattttt gtgtatatta ttatttctga 36120
 tatacatttc cataattata aatatttgaa taatattttt atttattaac atatttgttt 36180
 ttaataatgc tatgaaatta ttattatatg atataactac aacatgatta ttattaaacc 36240
 aatagttata ttctcaatt gtgtatataa aaaataaatc ttgcgttttt ttatttaata 36300
 attcgtaatt aaaataatca gattttttta ttaaattttt atttcogtat gtaatataag 36360
 tatcatattc attaatatat ttacattat taaattttat attagagtta aataatgcaa 36420
 ttataatata attttttttt gcatttttca ttatttcgtc aattaaaaaa taatgtaggt 36480
 atttatttct ataattttta tctatgcaca aaaatgttac atgtatacaa tcataaattt 36540
 ttttatgcaa ggatattggt ttttttatcc cagatatcgt acccgctatt ttatttcgt 36600
 tatataataa tatattatat tcttttttag aaaaaggatt taataataac cactttatag 36660
 tatctaaatt aaatttataa ttataatttt tatataaaaa agaataataa tctaaaatat 36720
 tattttcgtc taaatatttt atattaaaat tatctttaca ataattatta ttatatgggt 36780
 tgtgtgggtc tattgtattt ataataattat ctattgaatc gtaatttaatt ttacatattg 36840
 atttattaat ccaatatgac atttattaat tatattaaat attaaaattt atatttttaa 36900
 ttaataattta tatttttaaac atataatatt attaatatag ataatttcac attattaaat 36960

aaaaaattttt acaataaatg tgaaaaaaaa tataagcaaa taaataatga caacttttta 37020
 atatactttg ttagataata gcacaataga tgctattcca atagttattg attctattgg 37080
 aatgataac gaaaatagtg taaaaagtc taaattaggc ggaactaaat tcaatgtgtg 37140
 ttcgacatgc aatttaacaa gagaaaatgg cgacatgggt catccaggaa gaactccttt 37200
 aagagatatg tgtattgtaa aatctggttg tattaaaaat gttttggata cactaaatac 37260
 attaaaaatta tgtaatagtt gttttatgat aaaaaataat acaatatttt cagaaaataat 37320
 tgaaaaatat aatagcgaat ataatttaa tttaaaaaaa gaaatattat cattattaaa 37380
 aaacaatcgc caaggtgggg taaaatgtaa taatgaaaat tgtcaaaata taacaggaac 37440
 atataaatat aatcaaaaa aatcatattt ttacgtaaaa aaacaaaaag atgaaatcat 37500
 tcttaataaa acagtttata ctatgttact tggaattcct gatataattt ataaatgtgt 37560
 tactgtacca tacgcagatt ctcaattaca accttataaa gcatttttacg ctaataatat 37620
 tataattcct gtattaccat ctagacctcc aaattatttt gataataaag aatctcatgt 37680
 tatgacaaca aaattgggtc aattagttgg cacatcacia aaatctagag atgaaagtga 37740
 agttcaaaaa atatataatg atattgataa tgttaaacca aattctccat ataaaactag 37800
 taacatgtta gttacgttaa atatacaagt tgggtgtaac aaaaaaggaa gtatagttag 37860
 atctaataata atggctagaa gagccgataa cacagctaga tgtgtagctg gtccaactat 37920
 ggacaaaata ggatatatat atataccaaa aatagtgggt aagacattaa catcatcaat 37980
 atattataat agatttactg aaaatatgat taaagatatg ttagttaatg ataataacaa 38040
 aattaaatat atattattat atagatatga tcaattaaaa cccacaacat tattaataat 38100
 aaaaccacia tctagactca ataatttatt aaaaatgaaa tatggagata gaatagaagt 38160
 tgaattagaa gataatgatg taatattatt tagtagacia ccatctttac ataaatttaa 38220
 tattcaggca ggtatatgta aaatatggga taataatata atagcaacac ctacgccgat 38280
 agcaaattct atgaatttag attatgatgg tgatgaaatg aatgtatata aattaaatc 38340
 atctgtgtca gtagaatcat tatttactat gttatctgtt aatatgatta aaaataatta 38400
 taatttttcg ccaatatattg ggttaattca agatcaaata atatcagtac atatgatata 38460
 taatatataa gaattttctc tacaagatgt tatttatatt ttaggagaat atagttatta 38520
 tataagagat ataaataaaa aaacatatc tggaaaagaa ttattatcat tattatttcc 38580
 agataatctt acatatgaag gtatgtttga taatggtaaa attacattat ctaatatatc 38640
 atctaaacia gttgtagctc agtcatatga atcattttca aatattctat ctcaattaaa 38700

```

aaataatatt tatgctgtgt attttataga tgtaatatta tatgtagcta gaaattttat 38760
aaatttgtat agtttttagcg tttcgttaaa agatattatt ccagatatat attttattga 38820
cgatgttcaa gaatacatta ataattgttg taaagttata caatatgttg cgctacaata 38880
ttatatataa aaagatcata taataaaatt aacttatgat gaaatggaaa atataagaat 38940
acaaaacggg aataatataa tatctaattgt taaaaataaa ataaataatc tatttaaaga 39000
tgagaaatta aatactataa tgatgatgaa aaattcaggc tataaaataa cattagatga 39060
attagtaaca gtgttggggt gtactggaca acaaggaatt gattcagatg atataccgaa 39120
accggaatt atgggaagag tatttgattc aacattacct ggaagttag acatagaatc 39180
attaggatat gtaaatcat caactataaa aggtttaaaa ttcgaagaat tggcatttca 39240
tacaaaatac aattcaatta aaaaaatatt aaaaaataca tgcgagacat catcggcagg 39300
tagtattggg agaaaattag ttaaatttat ggaagtggt aaagtagatc atttgggtag 39360
atccgtatta aataatgata ttatatggta taatacaaat catattaaaa tgacagggtg 39420
tgatatatct aaagtagaaa tattaactcc tagtttagaa atggtaaatt acacacttat 39480
aaaagaaata tataacgaaa ataaaaaata tttattaact aattttaata ctgaaataaa 39540
taaagaattt atttttccaa ttaatataaa attagagatt caatcatttt ataataaaaa 39600
atcaactcct atatctgata tagatgcatt aaaattaatt gatgaattta tagaatatgt 39660
ctatattaat atatattttt acaacattac aatagattgg tttaaatata ttttatatac 39720
atatctagat agaaatacag tagaaaaata taataaaaaa tattctaaag aattattaaa 39780
ttatataata aataaaatta aattaaaatt actaaattca ttaaattccag gttatcctat 39840
tggattagaa tacgcaaata atattcaaga aaaatttaca caacaatcat tatcgtcttt 39900
tcacactact aaaaaatcag gaacagcatc aaccaatta ggattttcgg attttaaaga 39960
tactgtagaa ttgagtaaaa aaaataaaag agatattgta attgctttta caacacacag 40020
atataaatta gaagatatta agaagcaaat ggaatacttg tgtttaaaga attttaatcc 40080
aaaaataaat atcatagaag aaactgaatc tgatatggta ataagtgtaa gtataaaaaa 40140
atactatatt aatgacaaaa tatctttata tcattactta caaatgtata tagaatattt 40200
agaaaataat aaaattatta aaggctattg gataactatg aaattaaaag ataatgatat 40260
aacagtgata tttggagtta aaattaaaac tccttataat ataaataaaa tatatatgat 40320
aaaaagtata ccagtttcgg tttctaaagg taaaataagt aacataaatt tagagataga 40380

```

```

agatgttaaa atgtataata ataatttgga agaacaaaat ggttatagat taaaattcta 40440
tattgatagt gtcacagatt ttattaatth tgatacgaga gatgtttatc tggaattagg 40500
tccgtgggtt acgtataatt cgtttgcat acaatttgct gaattattcta ttagacgtag 40560
attagtttcg tctacaaaag aaaaaagtat ggaaatatgt tatataatat tatcgaaatt 40620
gatgtgttta tcttccgaaa tgtataatat aaaaagaata agagagggta aacaaaatgt 40680
tataaaatca gcaatacatg gtagttcgga tgctataaca acagctgcat ataataatat 40740
aatagatcca aacaatgata tatattctca aatattatca agtcaaatta tgaaattagg 40800
acatggatat tatgattggt atttaaattt aatagatat gattctatta acataaattc 40860
tgtcacgaa caagatataa atataacaag tgaaataatt gaaaatttct aattatgaaa 40920
aataataata aatatataat aaaaatgatt aacattaaac aatatttttt gtttttgatt 40980
gttataatac acataataac caatatattt tttaacaac taataattat atatgagccc 41040
gtatattata atacaaatta ttatgatgta ttatcaatat caaaatatat tatagtattt 41100
aatattatta tagatgatat aattacaata ttatgtttta tgattaacaa aaaagtattt 41160
tatgaatata tcgaatatca ctctatattt gttatatttc cttaaatagt aatatttatt 41220
aatcgagtg atataatttt atataatata ttatttgctt acattttatc tattttatat 41280
tttataataa catttgaaat aaattatggt attatacaaa aaaataatat tttaaaactt 41340
aatacacaaa ttataaaata ataaatgaat atatttggat taatagtttc ttcattatca 41400
ttattatcag ctatagtggg tatttatattt aatatattta gaattagatt tttaatatta 41460
acaaaattaa tatttatgtt tatattaata ggatcaatta taataactat ttttcttttt 41520
acattataag cgattgttcc ccaattatta aaaatataat actgattgta tatcttattt 41580
atttttcata ctgaaaaaat atttttctta tgttctacaa tgcattatc aagtttatat 41640
tttttatatt tttttttatt tttcttttca ataattttat tatcgatgta attatataaa 41700
ttttcactat ttttattatc atctaagtga aaatcttcag tagtattaac ctcttcaatt 41760
tcttctttaa taaaagattc gttattttca atttcaatat caatatcttc gttgttattt 41820
tctgtttcgt tatatatata tctaactacc caataagaat ctatttcattc ataatttagt 41880
ttattaatta cttcacaatc aattaattta taattgtcca atgtatattt attaaattta 41940
tcataataa attgaatggt ttgtacatct ggataaggta ttttttccca tgaaaaagtt 42000
ttatttttaa cactcaaata taaagatata tattcttcgg aatcatcggt taaaatagat 42060
tttctaaact ctaaatcagt aattcttaca tctgacatat aagaatcatt tttaataata 42120

```

```

tcattaatta attcttttaaa ttttatatat ttatccatat ttatatatat aaaaataatt 42180
agtttatatt ttgaaaaaat ataataaata taataaatat aaaaaaatgg ataatttga 42240
tttatattgt tacgaagtat taaataaaaa agataaaata agaaacaaag aaaatatagt 42300
acctaaagga tattattctc aaatacaaga acaagttcct gataattata ttaaacttaa 42360
taaaatatta aaagaaaata caagtaataa tataatgagg tagtatcggg atagtaatat 42420
tgaatcttac aacgaatcta actaaaactt aaaataaatg ttaataattt aggaatctca 42480
taatgaatct tgtattttaa ctgaatcatc atttcgaata aatttatata acattgctat 42540
ttttttttat atttgtgttt gtaattatat ataataaat ctatataata atatttattt 42600
attgttaaatt acaataacat attttatata taatatatta tttatatatt atacagtatt 42660
ttgatttttt atattaattt ttcacagaca gttaaattat gaataaaaaa tatcaatatt 42720
tgggttttac tttagataac aaaattccga gtatacaaaa taataaaata tatattagag 42780
ataaggatta taatataagt aattataaat taataaattt tatatatgat aattcagata 42840
ttataatatc tgaacaatct actatatatt cgaaagaaaa tttattatat ggtgaatata 42900
tttttaatca aaataaagaa tatgtgggta ttattaccaa caaattagaa aatagatatc 42960
ctatttcaca agaaaatgat aatattataa gaataaataa tgtaataaaa gttaataata 43020
agaatcaaca atttcctgta ttatattgtg ataaagaatt tccaaataat aatatattaa 43080
tacaatattt aaaattaaca ccacaaaaaa caaaaagaga agtaacgata tttaaattat 43140
ttatgaaaac aattataata attcacgaaa atgaaagaaa tataggcgat atgttattta 43200
ataatccttg tatatctgaa tatatgtatt atgataataa tatatctttt aattaattat 43260
tttagctata ttattaatag ataattttat atcattttca ttttgtttaa taacattatc 43320
tatgatatgt ataataaata atttataatt gtcgatataa tttatatatt cagtattatc 43380
ttcaacatta atattaaaga aaatcaaatt aagaaaatta ttattatcaa cgttataatt 43440
ataatatgta ttaactatgt gtgtaatcag agttatatgt cctaatatag atattatggt 43500
actttctatc attaatgcat attttagttt tattaaatat atattactat atattttttt 43560
atctatatct attaatttat caaaaaaatc tacattaaaa ttaattttta atatattcat 43620
tatatctaaa tgtaatttat acattttatt aaaatttttt aatatttttt tatttttaat 43680
ttttttttta tattttttat atatattatc gaaataaaaa atattattat tatgcttata 43740
catttacttg agtatttatg taattccaaa atgctataaa ttcttcttga ctacttccga 43800

```

tcatttctaatt tattatatct atatatattgat cgtagtatg tctatatatg ggagtaattt 43860
 gtaataaatt ataatatgtt ctaaattttat caagatcgac atcaccatca gttgttatag 43920
 aatcaaatgc ttctcttaatt ttttcatcag ttatattaat acctattatt ggaacaaatt 43980
 catcaaaaact taacgtattg ttattattca aatcatatgt ggcaattaac gcacgaacat 44040
 cagataaatt tatagttgga tcaataacaa ttaaaaaatt tagtaattct tctgccgtaa 44100
 tttcaccatt accacttggtg ttaataagat caaaaatata tctaataatta tcgattgggtg 44160
 atgttattct agataatgta gatgttggtat tttttataat ttgtaaactt ctttccattt 44220
 aatattttaat aattattttat atattttatac atattacatt tagattcaca aaattttta 44280
 attcttaatc tatatataaa attattaata tattcaatat atcctaacaa attatcta 44340
 atttcatcat cattttcatc tattaaattt aaaattttta aatatttttc acgactta 44400
 ttattatatt ttattataat ttttgaaata attttatatt tattgatata cattattata 44460
 taattattaa taataattaa tataatacta taaaaattca attattaaaa aaaaaaagt 44520
 gaaataatat aaaataatta taaatggaca ataatacaat tactaaacat attggctata 44580
 atactttaca agttgttaca gaaatttcta ttcaattaga aagcaaaca ataaataata 44640
 atattagaca agaaattgta tcaaatataa aaaataatat aataaataaa actagcgggtg 44700
 ttaattatat ttatcagtt gattatcaat caatattaaa taatgaatta ccattattaa 44760
 gattaaataa tgtatataca caagaattag ttgttaaatt acccgtaaca tatctatatt 44820
 ttacaaaaaa tcaaataata aaagcttatt tgacaattat tgaaggagat aatccacatg 44880
 tagttgcata taacaaatat atatatgtg atataatttt agatcataat ttcactataa 44940
 atatgtcaga aaaattatta atatttaaga acaaagaata taaaaataga gatgaatgtt 45000
 atgtaaaaat aatcgatata tatagttcag aaaaaataa taaaatacca tgcaaaggta 45060
 ttttgcaaga cgaagaaata taaattaata catatatttt atactataga tttattaatt 45120
 atttgaaaaa tattatattt gtctaaacat aacgatatat tttttatttt tatcttatat 45180
 aataaaatta taaatatttg tccgttttat ttaaatttta tatatttttt gaaaatatac 45240
 tataaaataa aatgaataa catttcatat aaaaatttta tcgaaaatat accagaaaaa 45300
 tgggttagatg tgatagataa aaaacaatta gaatatgctc atcataaatt aaaaaatgaa 45360
 tctattatta aaccatctat aaataatata tttaaagtgt ttaaataatt taatcccgat 45420
 caagttaaag taattatttt aggtcaggat ccttatccta ctgttggaat ggctgatggt 45480
 ttagcatttt cctgttctaa taatagtaat tatattccta aatctttaca aaacataata 45540

```

aaagaaatat taaaacaaaa taaaaaatat gatatgatga aaaatattaa tatgaattat 45600
attaatgtaa atctagaatt tttagcgaaa caacaaaattt tattatttaa tacgatattg 45660
acagttggtg atgagccaat gtcacacaaa catatttggg aatcattttc aaattctatt 45720
attaaaaaat tatcattaat taataataat atagtattta tattatttgg tgcaaaagct 45780
cataataaaa tttattttat cgaaaataaa aaaaatcatt gtattatcaa aacaagtcac 45840
ccttctaatt tatcttggtt taaagatgga tatgataaat atgttccttt taataattca 45900
gattgtttta atatttgtaa cgaatatctt ataaaaaata atataaaacc gatagattgg 45960
ttatctgaat taataaaaaa taattaacat tttatttttt taaaaaatat taaaattgat 46020
ataataataa ctatcgata aaaaaaactt acaataaat ttggatatgtc aaatgacggt 46080
aaattaacta taatttgaga taatgaatat ataggattta tgttactagc acattcggtt 46140
gttacagtta aatttcatt gtcatttaac actatatctg taacactaat ttcacacact 46200
gtaatattac aatattgttg ttcacttttt attaaactag taatatagtt ttcattattt 46260
ctacacgcag aataccaaca aaaatatggc gcatatgatg attttgaaaa tacatcgata 46320
ttatcattca ctattaaaca ttgacatttt atatcatctt tattattatt acaatattct 46380
atcattttat tatcattttc ataattactt aacatttatt aataatataa ttgttatgta 46440
gaactaaata tacatttacg tgatattttt tatgaataaa tgggaagttct taataaatat 46500
tatagtgata ataaacctat attagttgag gaggcgatg ttatgaaagt tgatacaata 46560
attcctaata aaaatagtat tattaattta gaaaattcga tatttaacgg tcattcaatt 46620
tttaaaaaata aagtaaaatt cgataatgaa gttgaaattg atggtgaaat tttttttaat 46680
aatgccaaata caataaaaaa tattatgact gagataaata agttgggacc agtaactcag 46740
ttacagcaat ctatagatgc agttaatc gaagatatta acaatccttt tgtattattt 46800
tacagtagaa atgatttaac accatctaac gaacaacatc ttattattcc tccaaatatt 46860
tctgctgaac attgtatatt ttatttagtt gttatgttta ataatggcat gaattattgt 46920
aaaattaagt tttattataa agtaggagca aaatcaccat ttgaagtttt atccaaagaa 46980
tatattaatt gtgatgaaaa taaagcatct ataaaaatata atgatggtag tttaaaaatt 47040
gaattttaat ataataaagc agttgtgaat aatattaaaa ttaaagtata tcattctgat 47100
atttaattac gtgatgtaaa atctaataat taaatggaaa attatgattt taaaattgat 47160
aaatatactc atataggaaa tcgtagttat aacgatgatt atatatttat aaaaaaaat 47220

```

ataaattata tcatgtttgt aataattgac ggacacggag gttcagaatg ttctaaaata 47280
 ttataaaaat tattaataa aaattttaat ccaaaacat atgtagatat tggattatat 47340
 ataaaaaatt tatttataaa aattaataaa acaattttaa ataataaaaat tacatctgga 47400
 gcatgtgtat ctggtattta tattgataat aataaaacaa taatatttca attaggagat 47460
 acaaaaatat atttatataa taacaataaa ttaacatatg aaacaatata acatgatata 47520
 tcaaataaat acgaaagaaa taaatttttt aaagatttta ttatttcaga tattccaaga 47580
 ttatttgga agttaacagt tacaaggga ataggaaatt ttgatttaaa tataaaatat 47640
 atacctaaaa tagattatat ttctaataat agttataata aaattatttt atgcacagat 47700
 ggagtgtata aaaaaataaa tataaatatc gatgatactg cttaaagaaaa tattaataaa 47760
 tgtttaaaaa atcctcctaa tgataatatg actatgatga ttataaatat atcaaatata 47820
 ttacatttaa taaataaaaa catataatgt tgattaattg tatgagtaat attaatattac 47880
 ctgttactaa taatatagac ttataggag atattgcaat aatatcaaata ataacacata 47940
 ttcataataa aaatttaatt aagatatttt ttaaaaaatt tgacgatttt aaagaaataa 48000
 tttttgtacc aggtaataa gatattttat ttgataatga tatagtaata aataatgaat 48060
 atatacacia ttatcattat agaaaaatat taagaaatgg tttagaaaca atagatgata 48120
 acgaattaga tatcataatt ttaagagatg aattgtatga atttgatcat ttcgacgata 48180
 taataaaaaat atatggccaa agttattccg aagataaaaa atataaatat tctaataatta 48240
 ataaaaatga aggaatatca catttaaaat catcaaaaga tataataaat tatagaaata 48300
 atataccaaa atgtgatatt ttaataacat ctagttctcc ttttggtgat gataatgcgt 48360
 gtggatattt attatcaaaa gttataaata ttaaaccaaa atatcatatt tttaatggct 48420
 taacacaata tactcatcca agtattgtta actataatga tattattttt gttaatagta 48480
 atatatataa taataaaaaa aaatcatata ttattaatta ttaattttta aatataaatt 48540
 taataaatat tcagtaaata caaataataa tttaaaaata acattattat ctatatgttc 48600
 tcttattttt attattgttt tatttttatt attatgtatt ttataaatat catttttaac 48660
 attataaaaa ttttcgtcat taataatatt ttgtaaataa taagataaat catcaattaa 48720
 aatattaata ttattaacat tctcatcatt ttttatatta atatatatgt ttttaaatc 48780
 attataaatt tcttgtgata tatttaatat agaattctatt tgatctgatt cattttcatt 48840
 aattttatta taaatattat ttatagcgtc attagtgggt ttattaataa ttatattctg 48900
 cgataaatca attatttttt taattttttt aataatatct acaaaaattat catttttaac 48960

```

aaatttatat aaatttgcac ataatgtaaa catttcatct tcagataata aatttattat 49020
ttc gatagaa taatttaaaa atatataatt cttaaatgga aatattacat ttctataaat 49080
aatattcaaa taatataata tattattata tatattatta tatataattat taatatcaat 49140
aatcatgatt agtgattggt ttatttttaa tatattattt caaaattatt aaatattttt 49200
taatataaat ggaaaaagaa caaaatgttg ctgatgatgt cgaagatatt gatgataaag 49260
aatatgatga aatattaaaa aatattgaag atgagaaaaa tgaattaaaa aaaaaagaat 49320
acacagaagg attattaaga ttaattttta aaaatattaa agaaaatgtc gataaaaaata 49380
ctgaaaatga aaataatgat ttgaaacag agattgacgt tgataaacia actgaagttc 49440
aaggataata aatgatatca ttgtttaata ttttaataat atttatatta ttatttatga 49500
ttatttttat atcatattat aattctgtat atataaattt tataagcaat cataaaaatt 49560
ataatattaa taatatatat tttatagata attttgatag atataatagt ataataatgg 49620
aaaatttgga cgaaagatgt ataaatataa taaaatataa ttcattattat tcattagaaa 49680
atataataat attatcacia gttataaat ctaaatgttc tattttttat ttagattcgg 49740
atataaacia atatattaat gatgatgtat tacaaaaat aactattatt aactatggaa 49800
ttataggaga tttatttaat tatattaata aaataataat taataattat ttttttatag 49860
ataaaattat ttataaaaaa tatggaatgt tacaaaaat aataacatct aatttatcta 49920
ttttacctga tatattaata tatgataata attattatta tataagttat tataactga 49980
taacaatggc aatgttaact 50000

```

<210> 27

<211> 32392

<212> DNA

<213> Amsacta moorei entomopoxvirus

<400> 27

```

tttgataatt ctgatatttt atcaaaaaat atcgatttaa atacatataa taatataata 60
aatacttcaa gaataattaa aaaaatagct tctaatatag atatggaata ttttgaatat 120
ataattagaa aatctgattt tttatttaaa gataatacaa ttaacttaat aagaagaaaa 180
gattttatcg gatataaaac taataatatg tcgttaataa ataataaaat attattatat 240

```

aaaaacatag caattataac caattatatt aaaaatgaaa aatatttttg taattgtata	300
ataataaaaa aacattatat tgactatata aataaattaa cttccggatg tttatacatc	360
gaaaataata attatgatat agaataataa ttttaataaaa atatataata aaataatatt	420
attttatata ataattatat attaaaaaaa gaaaataaaa ttataaatat taataatgat	480
atattattat ataagtataa tataattaat aaattaaata ttgattatga tataaatata	540
aataaaaaata tagataatag aattgttagt aataatcata ttataacaat agataaaaaa	600
tatatatatg ataaaaatat aaaaatatat aattgtaata atatatcaat atatgataat	660
atatatggta atatttttta taaatttgat aagatatcta atattttatat aaattttatt	720
aatactaata tatataatta ttattatata tcgataatta atccaaaaaa tattattata	780
gaatataata ttaattaaat tttttattat tataatctat atttaataata ttattactaa	840
acatttttat aaaatatgat attatattat tacatatttc agaaaataat tgttcgctcg	900
gtatataatc tattacatct atttcggtat cataatgttg aattaattta ctctttttat	960
aattcaataa aaataaatat atttctaatt gaactttttc atatatagga atgtatttga	1020
atagtctttt tcttcgattt ttgctttcaa ttaatacatc gttaataatt ccatcaattt	1080
taccacacac tattatattt atttttttat tattataatc aaaagataat aattttttga	1140
tataatattt atttctattt gttatattta cattatattt tttctcatat aaatctatat	1200
tataatcttc ttttatacat cctcttttta aagatatatc ttctgctaaa ctatttttta	1260
atattattatc agatatacag ttaataacag aattactccc ttcttctggt ttactatata	1320
ctgatttgaa tataatattg cttattttat tagttagatc tgcgaatca ctattatcca	1380
catcacttat ttcatttaat aatttatatt tttctatttc attataatta tctattattg	1440
tagtatattt ttttttagta ttattgttaa tataattatt aattaaacca ggattatatt	1500
tatttaaaat ctctaattt tcttcacat caacatatat gttatgatct gaaaaatatg	1560
atagttttaga cgcaattagt aatataacca tttatattat tattattaat taatatttaa	1620
aatactatta atgattatgt attaattatt ttatctaatt gagattcaaa ttctttacac	1680
aacaacggat tcaattcagt tttttctgat aataatttca ataacgtttg ttctgtcatt	1740
ctaacagatt tatataaaaa atctgttata gatttaattg ttagtttatt ataactttca	1800
tcgggcaaaa acttaataat agtataaata ttttcaatta attctttttc catttatatt	1860
ataaatcttt atagatat tttgaaaaaa tatatattta atcaatacat tatcatatta	1920
taaatatata tagcatat atataatata acaatgttta ttgacaattt aaacaataat	1980

```

atgtattatt taataacacc tattgttaga atattaatac atacaaacaa taattcaaat 2040
aaaatattaa aaacaaaacc tgtatcagat aatgattacg aaatattaaa atatagtagt 2100
tttgttgaag ataacacttt aataattaat gaaaattata taaattcttt tacttggtgt 2160
aaatataaaa ttataaaaat tactaataaa aataataatg gtatttctta caaaaactta 2220
cctacattgt attgtagtaa tattacttgt ttaaataata agttacaaaa tataataaat 2280
aaataacatt aattgtagac aataatagaa tctcatataa aattattgat cccatcgtaa 2340
tgtctcaaat aaatattttc taagatttta tcatttttat taagaatagt atttctagaa 2400
taatagatag attttttatt tcttgggtatt aaaaatgaca taaaaataaa taatatatat 2460
atagataaaa tagttattaa tattattata taatctatca tttttatatt aaacaataat 2520
tgcaatgata attctgggtt tctattatct aatttttagta atgcatctga tatatatattt 2580
attccacaat tagcatccgc agaaccgcga tttaaaaata agaaatcagt aggaaaatta 2640
gaataacaat cattttattc tatagtaccg atatttatac tattgtccac tactgcactt 2700
gctctacaat tatttatgaa tccagtatca ttttcattta ttatatcatc tgtggatatt 2760
cctaatatat tttctatttg tgtgctctg tcttctggta atagtaacat agtttctcct 2820
aaactttgta ataataatgt aaaactagtt atttcattac taacacattt attacttaaa 2880
actatattac aattattaat attacttgtt cttatttcat ttatatattt attacaatta 2940
atatttggtg tactagatat tctatttaat ttatcgataa atctagtata tacgtcatta 3000
aatatagttc tacctatatt aatactacta tttctgggtt gtaattgcga ttcattcata 3060
ttaatatatt taaattgaaa taatatatat tatttttaaaa atggatattt ctgaatatac 3120
aaatgctata tatgataaat taatcgaatt aattatagat tatattaata atataaaaaa 3180
tgaattaata gaatatatag ataagaaatt ttttttcata caagaaaaat tcgaagaaaa 3240
taatatatct aaaataaaaa attatccaga ttatataata ggaaatgata ttaatattat 3300
taatacaaat attacattat ttataccaaa aagaatcgat actagatata aaataaataa 3360
tataatatat ataccatatg aagaaataat agaattatct aatttattaa aaatatataa 3420
taattattat aatgtaaaaa taaaaaatat atatttagaa aagatagaaa atattattat 3480
tttaaagat ccgttaatat atatttcttt attaaaatca ctattaccat ctaacgaata 3540
tgatatttta acacataata taaataattt aaaaatataa taaattattt atatatttt 3600
ctctttctat ataataatcct ctattttttt cgaaaatatt tatagcaaca taagggtggaa 3660

```

```

ttttaaattt atatattaag tatttacaaa ccatatatcc agttctatta atgccatgag 3720
tacaatgtat tcctattaaa ttttttaatt caatatatct atcaataata ttaaaaaatt 3780
tattttatctt atcatctgtt ggtaaagatt gtgcttttat tggatttttt atatattcta 3840
tacctaattt attaagatca gatggattat aacatgtttc tgaatatcta aaatctatta 3900
caatttttaa attaggaaaa gtatttatta atttacatat atcccattca gtaccattgc 3960
acggaagttt gaaacatatt gtatttatac actttattat agttccgtgt gcaaaataat 4020
tattccattt ataaggtaac atattaaata tttgattata tttaaatatt tattataata 4080
gttatgatgt attgaatttt ttttttcata gaataaataa atcatattaa ttaaatttat 4140
atatgttata aaatgacaat atatttttaa attttgtaat aaaatattaa taaatgcgaa 4200
ttgagtatat aaacgaagat ttttcaaca cagattttaa ttataacatt atatcattta 4260
tttctagtga ttttgtatta tgtaaagata aatgccta atatatataa aaaaaatata 4320
attccatcaa agaattaaaa aaacaaaaga aaaaaagtgg tgaagtagca tatatatata 4380
aaaataataa atatataatt tatattatta ttgcagatta tatagaaagt aaagtaaata 4440
tattaaatat tctaagagca ttggataatt taaaaattat tttagaaaaa ttaaaaataa 4500
ctgatattat gacttctaga tcacatattg aagatgtgta cgaaactgat aaattatata 4560
aatatttaag agagataatg ccagaagaat taaatttata tttattatta tagtttatgt 4620
atgaaaaaaaa atgactatga taacaaatga acgaagataa ttatataatt ttggcaacaa 4680
tcgtaacatt tatatacatt attgaatgca tgattaaagt tatgtattta ttattagttt 4740
ttatatataa tatgtataga attgtttatc aagttatata agttatacat ataacttaat 4800
ataattatat taatattatt ataataaata tggaaaatta tcatattatt atattaacaa 4860
ttaaaagaaa ttctgacaga ttacaaaaac tagaaaatat attatcttgt caaaatttat 4920
tatataataa agattatagt gtattttatg gaatagatta taaaaatata aataaaaaata 4980
atttaaaaaa tatatgtaaa aaaggattta aaaacacatg tccttattca acttttagcat 5040
gtgcgtcatc acatattcta ttatggaaat atatatcaaa attaaaagat aaatataaat 5100
atattataat attagaagat gatacatata taaatgtatc agagtataat aaacatacaa 5160
atacagttga agaattatta aaaaataata gtatagtatt tttatattct gattgttata 5220
taatgggaac taccatcaaa tcaaccaaca atgatacaaa aataacatat aatccaaagt 5280
ttcacgtttc gatgggttgt tattgtataa caccaatcac tgctactaaa ttatattatt 5340
tctatataaa atctagagta tggttccaca tagattttca attaaatttt gatatacata 5400

```

atataatcatt	aaatagatat	atttatatag	ctgctaattgt	atgtaatcaa	tatgaaggaa	5460
ataaatcatc	tatgggttta	aaacataata	atataatggt	aataacctata	gaaaaatacaa	5520
aattaatgag	aataatatcg	actcctatta	taagagttaa	tgaagctgaa	atagattttt	5580
atataataat	aatgttaatc	tcacttatcg	ctagtgttata	tttctttggt	tttaatat	5640
ctgccttaat	atTTTTatta	tttatagtag	tagatgttgc	ggagaatgca	aaaaaataat	5700
tatatgataa	atgatattat	tgttttttgt	tgtatat	tttattgtga	ttgttaatat	5760
tatatTTTTat	agtattttta	atagattata	tttagataaa	ttaatttttg	aaaatgcaaa	5820
aatcaatta	agaactaccg	taagttgtat	aatgatcat	tggtttgttg	ttcgaagaaa	5880
tacaagattt	ttagatttat	tagctgttaa	aagagattca	gaatat	attgtaatac	5940
taatccaata	tccagtata	tattagaatc	gtgtgggtta	aatggtagat	ttaataatag	6000
atcagaatat	tgttcacaag	ctttgttaga	attaatgttt	actttataaa	aaattttatg	6060
aaattttata	caaattatgg	ataggtattt	tatatTTatg	tattgtatta	aatatggatg	6120
ttaatatTTc	agaatatggt	gacatgagtg	gttataaaaa	aataataaca	cataacaatg	6180
aatttaaatt	gagaaagtat	tcttcacag	atgatataga	taaagcacta	atacttaata	6240
atttaattaa	atcattatca	tcacacacat	atataagtat	tatagatatt	aatgaacaaa	6300
aatcacaga	taataattca	aatatatgta	agaataaatg	caatatatgc	tgtaaaaaaa	6360
ataacattaa	aaaaaatcaa	aacataataa	aacgtttttt	aaacataata	ttaaaacatt	6420
aattaacata	aggtaaaatt	tcaagcttta	atttaaggat	ctcagtcaaa	ttacaataat	6480
aaattttatc	tatatataat	atagaataaa	ttaatatata	taaataataa	taaaattata	6540
attatagtaa	aaaatataaa	tatatatgat	ttttttattt	tgtcaatttt	atctaagttt	6600
tttaattttt	ttattatata	tttactacat	aattttattt	ttctaataata	ttttttaata	6660
aattttattt	tattaataag	tatttttaaat	aatcat	ctaagtcaaa	atccatat	6720
atataattat	atTTtgaaaa	ataatatata	ataataaaaa	atcaaaaatg	ttatttttta	6780
ataataatta	tttattagaa	aataacattt	tacatgaacc	atataatatt	attaaatatg	6840
atTTtcctat	atttaaatta	tataataata	atatatgtga	gttaaattta	tttatatctg	6900
aacgagaaaa	tattagtTTa	gaaatagtta	aaaatataga	tatgacaaat	gatttttaaat	6960
tatttttaaa	acatatatta	agaaatataa	aatgtataat	aattcatgga	ataaataata	7020
taaaggatat	tatagaatgt	ttgaataatg	ttgaatttat	aaaattagaa	tctatcaaaa	7080

aatattatat	agattttaa	atatttaata	atttagaaaa	aagagaaaat	ttaaaatatt	7140
tattaataga	taattataat	attataaatt	cagataatat	agaaaaat	taataatctat	7200
tatatcttga	agtaaaaaat	tcatatattg	aagatgataa	aatgttatta	tatgttaata	7260
aaaatttaca	atttttaaaa	atatatgaat	ctaaattaga	attatcctat	attgaagaat	7320
ttataaat	aaaatatata	agtgtgtggg	acgaaaaaac	ttatataaat	agtaaatatt	7380
taaaaaatat	gtataattta	aactatattg	aaatttttaa	tattattaat	attaatgggt	7440
tgataaacat	atatgattta	aaatttttaa	gaactaat	aaataataaa	ttgttgata	7500
taaaattatt	aaattttcta	cacaataccg	aatgtttaga	cataatatgt	aataaaaaata	7560
caattataaa	atcatttgaa	tatttaacta	aattaataaa	attatctata	tattattaca	7620
ataaaattaa	tagtataatg	tataatttaa	attcatcgaa	tttaciaaata	ttaaatattt	7680
gtactaataa	ttatattgat	tttaaattat	ttaaaaactt	gttaaataata	aaatatatga	7740
aattaataaa	tataaataaa	aaaaataaaa	tacgttttga	tgtaaataat	atattaaagt	7800
ttaaaagttt	attatcatta	aaaattgaaa	atatgcatat	agataaatatt	gaaaaaatca	7860
gtaattttta	tactattgaa	gtattacact	taaataatat	tgatatagta	aatataaatt	7920
ttatagaaaa	taattttaa	ttaatcgaat	taaattttaga	taataattat	ataaataata	7980
taaattcttt	aaaatgttta	aaaaaaataa	aaaaattatc	attaaaaaca	aacaatatta	8040
ttgatataaa	accattatta	tacttaaata	atttaaatta	tattaatata	aaatataata	8100
atataaaaga	tattaatatt	ttaagatatt	ttaaaaataa	tattgattta	tatatagatg	8160
attattatat	tcatgataaa	ttattcgaaa	ataaaaaattt	aaatttat	atttttgaaa	8220
aataatatta	tttattaata	tttatttatat	aatatataaa	atggatactt	taccatccga	8280
attattattt	aaaatattta	ataattttaga	tataattgat	ttatataaatt	tgtataatat	8340
tgattttttat	acagatgtaa	tatataaaat	aataataaaa	aaaaataaaa	atgaatggaa	8400
aaaatttatac	aaaaattata	tactaacaga	taaattttata	tatgaatata	aacatttatat	8460
agattgggtt	gatttatcat	attattctac	attaaatgaa	tattttatta	taaaatataa	8520
aaaaaatata	aattggataa	atatttcaga	aacacaaatt	ttatctgaaa	attttataag	8580
attatataaa	aataaagtat	attggaataa	tatatcaaaa	tatcagaaat	tatcagaaaa	8640
atttatatta	gaatttaaga	actatgttaa	ttggaattat	atattttaa	atcaaaaatt	8700
gacaaataaa	tttataagat	taaatatatt	tcaaaataaa	tattattcat	atataataaa	8760
aaaaaatgaa	tcattttatat	ttgaaccgaa	cttagaaaatt	ttatataaaa	aatacaatat	8820

gcggttatata tattttaaatt atacaagttt aataaaatat aaaaatataa ctaatttttag 8880
 ggataataat caaacatcat ttttataatt acatactata aggactaca tattttacttt 8940
 ttttttcatt cataatattt attttataaa taatgaaagc tatatgtggt atgaccggaa 9000
 aagttaatgg aataatatat tttatacaaa atattaaagg aggatctgta cacgtaaaaag 9060
 gaaaaatagt tggattatct aaaggattac acggatttca tgttcatgaa tatgggtgatg 9120
 tgagtaatgg ttgtacatca gcaggagaac attttaatcc atataataga caacatggag 9180
 atattagtga taaaatacat cgtcatgttg gtgatttttg taatgtgtat gcagacgaaa 9240
 atggcggttg taatattgat tttcacgatg atattatattc attgtgtgga acaataata 9300
 taataggaag aacattagta gttcatgatt cgctgatga tttaggaaaa actgatcacc 9360
 ctttgagtaa aacaagtggg aattctggcg gaagattagg ttgtggtatt attggtattg 9420
 caaaagatta attgaagggt atgtatttat ttaataattc tttagtgtta tagtttcctt 9480
 ttgttgatat tattgtaata acattattta cattaaattt atcatttaat atttttctta 9540
 aatgtatttc agtttcatgt ggtttatttg ttattataaa taaataaact agattatttt 9600
 caaaattaat aataggggtg tatattaatc cgagatctct taatatatct gaaatagtag 9660
 ccatatgtat ataacaattt ttattattac aattatatat gtataatgct gttatgaaat 9720
 catgatttgt atttatgttt atttttttat tatttattaa tatatttggtg ttaaaattat 9780
 tttctacatt aatattattt aataaattaa aataaggttt atattttaca tattctatag 9840
 catcgtcaat atttaaaaat atattagaaa aaaagtaaata tataaaatat ttataataaa 9900
 aatatatttt aggataatta taattattat taagcacaca tatattatta tctgatttat 9960
 atatatattt tgtatttttt ataattattt cattattttt tttttcaaatt ttatcttcaa 10020
 taacattcat aaaaaatatt atattattaa cattaaaatt taatatttct atattattaa 10080
 tatttggtat tttattttta ttatttgtgt ttattttact attaaataat gtttctgctt 10140
 taaaaacagg aatattatta atatcaaatt cattatttaa atatagttga ttaggtattt 10200
 gtaaaaaaaa tttatttata tctgtagatg aatttataat ataataata tatttattat 10260
 aataagaata atatttattt atattattac tttttatatt attataaata tttataatat 10320
 caaaatattc atttaatat acataatcat caaattctaa tttttttatt ttagaataat 10380
 ctatagtttc aaaataattt aatgatttat acatatattc acttggttaa aaatatatag 10440
 ttaaagataa taatttatcg gataatatat tgattaatac taatttatta taataatatt 10500

tatcaatcat atatccaatt ataacatatt ttaataaaatt aaattttaata gttatactat 10560
 aatatctatt attttgatcg aaagaaaata aatatatact atttttaaaa ctagatttat 10620
 aaatgggttaa tgtagaaat ttatTTTTTT tatttttagt tttattaaaa attatTTTat 10680
 ctaatcgcg atataatata ttaaaaaaat ctgtatttga agtataaaat ataatatctg 10740
 acacattaat atccgacaat acatcattaa taaatttaac atcagatatt attttttgat 10800
 tattttcttc taaataaaca tcatttgta aaagatataa tataggattt atttcatatt 10860
 tatctgtaa taatctaaaa ttttttcat tatttaatat tttattttca ttttctaaaa 10920
 atttataatt tattatattt tcatcaaaa aaataccatt tttattaaat aaacgaagta 10980
 tcgcatcaat tttttatta tgtgatatat tcattatatt attataatat atattaatat 11040
 tatttgaatt tgtatatccg ttccaaaatg ataattcacc tgtatatact attagcattg 11100
 atactaatat atgttctatg agatgtatta acttataatt cttataatat attgataaat 11160
 ttgaccaa attatTTata gatatttta ttaaattatt attatcaaaa ttattattaa 11220
 taattcgcat tccattTTTT aataatttta tattcattta ttatataaat gggtataaat 11280
 ataattatct aaatattatt atatagttaa taatatttta tttatagatt tcatattaat 11340
 aataaataat ggaaaatata atagattctt ttatagatac taatcaatta atattaccaa 11400
 ataatttga taatataaac ttgaatttaa atattatata taatatcgaa gatgatagta 11460
 ttaataatat atataaagct ttatacaaat ataataaagt tttaaaatat atagtaaaaa 11520
 attataaaat tgatttatat attttagatg taaaattagc tatagaatgc gtaaataata 11580
 ataaaatatt atgcatcgat tatgagaaag aaaaaataat aaaaaatgaa ttaaagtgt 11640
 cattttataa atataatcca aatgataaaa atttttgtat ttttaaaaca attggcgaaa 11700
 tattcgatat aattaataaa aagtaaaatt ttgaattatt atacaaaaat ataattattaa 11760
 caccgacagt atattataat aaaaatgtac aaactaaccg tattattcat agtattattt 11820
 actataagat atatagaatg cgaaagtata gataaaatag tagataaatg tacaaaaaat 11880
 aattttatta aaacacattg cagtgttgat gtatatgata aatatataaa tgtattaaat 11940
 tttaaatata actataataa ttatgatgaa atatacaaat taagaaatat tatttacaca 12000
 ttttctgaac tacaaaaata taataatggt aaaaaatcta attttataga atatatatta 12060
 tatcaagtta aacatttaat cgaatataat gaaatgatag acaatataaa tattaatgaa 12120
 ttttaattat taattaaaga aatatgtgat tcttatatat attttataga cgaatcaaat 12180
 aaaaacacat tgatatattt acagataatg ttttaataaat tccctatatg gttttctagt 12240

aacacagatg ttattgacat aatttttaaaa ttttataaac gtattagaag tattaatatt 12300
 ttttaataatt ataaaaataa tattgataac agtacattac aaattgtaaa aactgcaata 12360
 gaatatccag gatatatgt atcggaaaaa ttaatgaaag aaatattata ttcaaactat 12420
 ctaatacata tacaccccga taattattat aaatttagaa attattatat agaaattaat 12480
 aacgaatata taattcctaa aaatactttg ataattaata taaaaaatat aagtattact 12540
 ataaaaatata ataatttaga cttaaaaaact atcgaatata tcaataacga atcagaagac 12600
 atatatgata acataatata cattcataga aatttatctg ttaattttta ttataataaa 12660
 atatattatt atatatttga tacaagaaaa tattataatt tatattatga atctaactat 12720
 atcaaactta tatattacga tacatctatt tctattaata ataataattg catatatata 12780
 cacaacgata ataaattaat taaatattat agtcgtaata tacaacatgc attaatgaca 12840
 agtattcata aaaatattaa ttatcctgat tggtttattg atggtttatc tttaaaatat 12900
 aaaaaatgta acaaagattc ctatttatat ttaaaaaacc aaaattttac aatactagat 12960
 acaataaatt caaatcgtaa tattgatatt gataattcgt attatagagg aaatgcactt 13020
 attgagttcc tagataaaaa taatttaaaa ataattaatg atataatttt atctaataat 13080
 actaataatt ggattgatga tattatggaa caaaaattta aaaattcatt gaataattat 13140
 ctaaattatt gtagtaatta ttatataaat aatgataatt atttatacac aaatgaaata 13200
 acagataaat atatagatag aattaataaa tataaaatat tcgataatgt gtgtaaagggt 13260
 aatataatta tagaacatta tgatgatggc gaatctacat ttatacttaa taaagataat 13320
 atatatatgt tagatgatcc acaatataat aaatatatgt ttaataacga atcttttatt 13380
 aaaaatatta atagaaaaag accaattatt cataattatg attatgaatg gttagataat 13440
 agtttattaa atcatttaat taaaaatatt tttaaagggt ataaatattc aaaatatatt 13500
 attttaataa aattatattc taattatttg ttttaattcta caatatattg cgataataaa 13560
 attatacaag atataaaaaat aaattctaca ttatataaat acatatgtta cgaaaataaa 13620
 aattgtttta atgtaaattc aaaaatatca aatgaaaata atattaatat tattaataat 13680
 aatttatgta tatacgaaga accgacgggt cctttattaa acttgccaga taatatatca 13740
 aaattaatat ttgatttaaa tattgggaat ataatttata atatagattt aagtaatttt 13800
 aatataaatg aatatataga catatataat aatgtattat ttgatatagt aataaaatat 13860
 aataatataa atttatataa ttatattata aaactttatc cttattatga taaatatttt 13920

attaagaaag atattaatac tccatacatg tgtaagtata ttgaatttta taataattac 13980
 acaactacta ttaatatatt aaacaataat aatatatcaa atatattatc tgataataaa 14040
 atagaatatt ctacaattgt atatgaaata aataatacta tcgttagtaa tataataaat 14100
 aaaaaatata ataataaaaa agatttctaatt attattaatt atattttttaa aatattagaa 14160
 ggcgatcaca cagataaaga ttattatatt ttattattta taaatataat actacttatt 14220
 gtatgtatta taattatggt tttgttttat tttattaata tttaattata ttctgatttt 14280
 attataaata tattaaagag tattgttata tagtttattt ttataatatt atctctctaa 14340
 catcatttca tttattaaaa atattttcat tatattttaa tattaatcta tgaaatatat 14400
 atatcataat atgcgtgatt aagaataaat aatatattt tattgtaata gtggagtggg 14460
 gtaatattta tattaaaaaa aaaattataa tgattgatat ataatatcat tttctataat 14520
 tatattttgt tgattatcgt aataattgta catcatttca ttataatgca ttctaataatc 14580
 ttcaagttcg atatttaatt gttttattct ttcgtcttgt ttttgtattt gtttaaaaaa 14640
 tttatatata tcttcgacaa ttatatTTTT atatttttta tattttattt atttagatgt 14700
 tgatattatc caacatatac caacatatga tatatatatt ttatttttta tttttttttt 14760
 atatttaggt ggtattcgag tatttactga ataaaatgaa tttattttat atcctaaaaa 14820
 ttttaataa tccgttaaca aatacatttt ttcaaatttt aaatatgtat aacatatttt 14880
 attttttatt aataattcgt caactacttc cattttaacc tttaatatta ttatatattt 14940
 tcaaaaaaat aagaatatga tatatctatt tattatttat gaaatattga tcattattac 15000
 tgtatttttc aattaattta aaataaactt tagaattaat catataagtt ctatgacgcc 15060
 atttattaat ttttaatcgg aataataaac taggaaaaat aacagtattt aaaaaatata 15120
 tattttgcat atgtttttca tataatctat atttatttat atttatgccc atattagtat 15180
 gtctataaat atatttaata aaattcgata taaaataaaa taattttataa atatcatttt 15240
 caaaaaatat aaaatcatca catatattta aaaattctat atttttatta atagtttttt 15300
 gtatttatatc atacatacac attttaaata tatatggtga tacatcattt aaaatcaatt 15360
 tggggtttact attactaaat atattattca tatatatata atgattttaa atatcatttt 15420
 ttaatttatt acataatatg tattttattt ccaaataaca tatatgagga tatgttatgc 15480
 gctcaaaagc atcttttaaaa tctaattgta atatatatatt ataatttttt attattttta 15540
 tagattcttt taatacatca ttatgattgt ttataacatt aaatttatta aataatttaa 15600
 catccacatt atattcatcg atatttttca atctagttaa tatattttgt tgttttggtg 15660

tcttaacatt acaatataaa taatatttat attcagcgtt acttattaat tctttttttt 15720
 ttatattatc tattgaatta ttatataaat ctataatatt atcgcaaaaa taattttttat 15780
 caaaattata aaatctatca tatctatttt ttattaattt agaaattatt tttgtttcat 15840
 ggatcatgtgt atttgtaaaa tttattactc tagactgaaa ttcataattta aaattttatat 15900
 ttttcaatgg tatatctaaa acattatcat caatttttaa atataaattt attttaaaaa 15960
 ttataaagcg aaatattatt ttatgaaaat tataattaat ttaataaaaa ttgtatacac 16020
 aaataaaaca ttttttatca tgtattatac tattattata tttaaaaaca ttattattat 16080
 ttgaaaaatt tttcgtatta tctattttat aaataaaatt attaataattt tcattagaat 16140
 gatttttttg tttaaatata ttatataagt ttttctatg ttcgcaatca acgtaattat 16200
 tattattgat ttttctaata aatacatctc tactataagt cataatattt gtattaaaaa 16260
 cttgatctaa tatacatttt agacattgac gaacatatac ccattctgca tatttaatta 16320
 tattaaaaatg atattgaatt attgtgttat acgaacattt tgtacatata tgtaaagtat 16380
 tgcaagttaa acatctatca tttttactta attctattat ttctctacat attgtacaaa 16440
 tttttctatt attaaaaata tcattaatat ctattaacat ttaataattt atttttattt 16500
 ttatatttta tttcaaaaaa aatattatat actataattg aaaaaatata ataattttta 16560
 taatacttat ctaaaatatt taacaatgaa aataattata attatattta tatgtattta 16620
 tcaaactttt ggtattaaac caaacatatc attatgttgt ggaattaacg aatattatta 16680
 taatgataaa tgtattaata ataaaacata ttttttagaa tacaatattg aaccattagt 16740
 atatgataaa aatattaaat taacaaataa aacaatatat gacagtttta atataattat 16800
 taacaaactt aatgataaaa catttaaaga aaaatcatat gatgttatta taaataaaaa 16860
 atatataaat atttatttaa tagaaaatgg aatattatat atggaaaatt atcctaattc 16920
 ttataacaaa tggataaaaa ttgatactga atactgtata aattatataa aaataataa 16980
 taaattaaga ttaagttata gaaatattat aaatgaaaaa aatgatgata atatatttta 17040
 ttaataaaaa tataatatag tatcgtgtgt atttataata ttaacattaa tattatattc 17100
 gttactttat aataatagaa taaaatataa tgtatatgat ttagaattat ttagtttatt 17160
 tatgtttcaa tatttaataa ctatattaaa tatcgatact cattatgaat tagtatgtaa 17220
 aattttaaca tatttaatat gtttctttgc gtatatgtta ttttcgtgta taaatattac 17280
 atctattgtc atattatcaa atttatataa tattaaaata aataaaaagt attgtaattt 17340

atatatagtt ttcttaccga taataataat tagtatattt atattatttg ataattattga 17400
 tatgacaaat tattcatgga taataacacc aaaaacaaat acaagatctt gtttttttagg 17460
 ttattatgaa cgattatttt acttatatat accaattgga ttaatgatat tattaattg 17520
 gataattttt tcaattataa tttttaaaat gtttaaaaat aataattata tatggaaatg 17580
 gtctaataa ttattatatt taaagttatc tgttataatg ggattaatgt ggatatttga 17640
 aataatttct tcattttttg attataatat tatattttat ataatagata tatataattg 17700
 tatgagtggt tttagtttat ttattgtatt aatattaaat caaaaattta ttattaattt 17760
 acataaaaaa aatatatata ttaaagtata aaattatata cattcttcga taaaaattaa 17820
 ttgtgttatt atatatatta atttagaaca atcaaaaattt ttaaaataat atagattatt 17880
 attaatatta tttttttcga gtattttaca taatttttta taaatagtgt atatatcatg 17940
 atgttgaaat gaaataacta tataatattc tttatctaga ttattaatat tatacgatga 18000
 atataattta taataattat ttaatttata atcggatttt gtaactaaat atataaacc 18060
 attactgtat atttcatttt taataataat atttatgtca atatcattta gccattttct 18120
 aaaatgatta cttttttcat tatttaattt tgatataata ttatttaaac cattttttatt 18180
 tattaatata gtttcgtcag aaatattcga aggtatatta ttatgtatat ttatccattt 18240
 aaatatatct gattttttcac aatatttata tatattatct gttgattctg ttaatttttt 18300
 taatatatca ttagatataa aataagataa tttagttttt atatctacat atatataaat 18360
 attatatttt tctttggtat cagaaatata tatttggtta ataattggtca tgattaaaaa 18420
 tatgtcataa ttattcaata aaaaaatata taaaaatttt tattatattt attaatatta 18480
 tttatttcac caaaagaatt aatttttggtg tttatacaag ataattttg taaattatta 18540
 agtttttcaa taccctttag agatgtaata tttgtattag aacaatctaa atttttttaa 18600
 ttaaatagat tttgtattcc atttaattgaa tttatttttg tatacgaaca acataatttc 18660
 tgcaaatttt taagattata tatgtctaata aaagaattaa ttttggtttt atgaaagatt 18720
 aaattcttta aattaacaag attttttata tcttccaaag aacttatggt tgtgcttgaa 18780
 aaatttaata tttgtaaatt agagtgtatt tttatttctt ttaaagaatt aatactcgta 18840
 aaactacatt ttaattctct taatttagta agattttcaa taccttctaa agaacttata 18900
 tttgtattat tacatattaa tacttgtaaa ttaatacatt ttgtaataa ttttaaagaa 18960
 tatattttta tcttagaaca atttaatact tttaaattta taaaattttc tatctctgat 19020
 aatgaatata ttttagaatt tgaacagtct atattttgta atttattaaa aatttgata 19080

```

cctgacaaaag attcaatatt agtatctgag cacgatattt tttttaaatt actaaatttt 19140
tttatatttt caaaaggatt tttatttata ttttaacatat tgtcgatatg aacactttta 19200
attaattttg gtataataca ttttgaattt ataaatttta atttagtttc attgtccaaa 19260
taatctatta taatttccaa tatttctatc ggaatattca ttttgtatat tcatgggtgta 19320
tatataatac atacattagt ttatatcata ttttttcatc taaaataaaa aacctatata 19380
atatctaatt caatataatt aaccgttttt ttatcgattt ctgtttttatt ttttatatat 19440
tttataataa taaataatat atataacagc gataatataa taattataat tatatataat 19500
atatataatt taatattatt attattatta ttattattat tatatttggt atcgttgata 19560
tcttgaatta tattattata tgaaatattt tgtatatata catgtttaat tttaatatta 19620
taataatcgt aataaaatat attatttatt tttacatcat ttttatatat caaaattgat 19680
atattctctt tttttatatt aatataataa taatcagtat ttttatcttc taatttaaca 19740
tcaacattta tttttttttt tataatatta tttttaaatt cactccaaac taaatattta 19800
tataattcgt cattatttat gtcacaaatc atattattat agttacattc attaaaatat 19860
ttattataat caggtaaata taattctatt cttttcatat atattatttc ggaatgtgta 19920
tttgttccac aattccttaa cgtaatagca taattatcga acatgtatga atcaatagtt 19980
ttattataat atagttggtt attattaaaa actaatgtac tattagattt taatatttga 20040
tttctagtta agtttggact aatataattt aattttggtt ctataacatt atcattttta 20100
tcacaaatta catcacacaa tcttataaaa tatccaaata atattccgta taatagtaaa 20160
gaactattat ttttaacttc taaatcaata ttaatactat ctatcgaata catcttataa 20220
atcacaaaga ttaccttaat atattgatat gttatttcaa aatagatttt tatgttatta 20280
tcacaataac atatataata tcatagaaaa attattatag ttcattctaat tcaacataaa 20340
tattatcttt ataataatta ttttttatct tttttttttt aacatttttt atatatatta 20400
ttataataag tgatatatat aataataata atataataat aattatacat atataatata 20460
atatatataa tgtattatta ttgttattat tattattggt attattgtgt ggtataacat 20520
tattattatc agatatatta ctaataattt tataaatatt atccacattt atttttttat 20580
tttgtttata ttttttttta attttaataa tatattgatc gtaagaaaat ttattattta 20640
tttttatata ttcttttaggt atagtaattg atatattctc tgtttttata ttaatattat 20700
aatatttccc attatttact aaatcaacat cagcattaat agtttttatt aaatcttttt 20760

```

tatctatttc actccatatt atatatgtat aaaacaatth atgttttttt atattcacaaa 20820
 tatattttatc atattcacat ttcatatcat caatattata atcgtcagaa cttaaataat 20880
 tattcttttc ataatatatt tttattcttt tcatatataa taatcgtgaa ttggtcgttt 20940
 ttgacaaga agaagtaaaa actggatcat tgtcatatat atatgttttt agttcattgt 21000
 taaaagttaa tttcttatta ttaaaaatta agtattatt aatattttaaa atttgatatt 21060
 tatcaatagc atctaattga aaatattcaa aatgtgtatc taataattta ttatttatat 21120
 cacaaattgg ttacagatt cttaaaaaat atcctatcat taacccatat aatattattg 21180
 tatcattttt aatatatata tcaatattaa ttttatcaat tgaatccatt gtataatata 21240
 ggaatagtcc tttttaataa agtatgatat ttcaaaatta tatataaaaa tagtataaaa 21300
 taattattta ttcaaaaatc gtttacgttc tacattatca catattttta ttattttttt 21360
 aacaaaatat ctcatcttg attctgtgta attttctaaa tcaggtaaca aacttaataa 21420
 taacatttta tttggtttat ttgtcatttt aacacattcc tcttttttaa ttacattttt 21480
 tatatcatta atgtcatcta taatttctac atcagaataa ttaatatcat ttgtgtatt 21540
 tattttatct gaatgttgt ttatttttat aaatgggtct aaaaatcgta aataatttgt 21600
 taaataatat tctcttgta tattatcact actttgtctt ctatttaatg atctcatata 21660
 cgaaactctt aattttctcc atttataacg acattcatct acagtactat tatatttttt 21720
 agcaatttca atccacgcct tttattatt atatttattt gcaaattgag tattatatag 21780
 acatggataa tttttaacac tttctataaa gttaattaga ttacttttat ttaaaaataa 21840
 attattatca ttgccattg tataatatgt tattattaag tttaattttt caaattagat 21900
 tatacaattg atatactttt ataagatttt atctttgaaa aattaatcta atatttaata 21960
 tttatttatt atttatattt taaaattgaa aaaaaaaaaat aaaatattta taataaaatg 22020
 gagttacat tagaaatatt agaaattata ttaattatt tagataatga tactaaatta 22080
 caatttatag attcaaaatg tattatacca aaacttatat atattagggc aaataaataa 22140
 ttttattaat ttaaaagaat taaaatataa taattattat ataaaatctt tagaaggat 22200
 tgaaaattta actaatttaa aaatattata ttgttcta atagaaatcg attcttttaa 22260
 agagatagaa aatcttatta atttaaaaga atttatattgt cctgaaataa atattaattc 22320
 tttagtatat ttaaaaaatc ttattaattt agaaaaatta gattgtaaat atacaaaaat 22380
 taattcttta aaaggaatag aaaatattat taatttaaaa gaattaaatt gctcttttac 22440
 aaaaattaat tctttaaaag agatagaaaa tcttactaat ttagaaaaat tatattgttc 22500

tgatacaaaa attatttctt aaaagaaata gaaaatctta ttaattttaa agaattagat 22560
 tgtaaataata caaaaattaa ttcttttaaaa ggaatagaaa atattattaa tttaaaagaa 22620
 ttagattggt ctgatacaaa aattaattct ttaaaagata tagaaaatct tattaattta 22680
 gaaaaattag attgttctaa tataaaacta aattctttaa tataaaacaa aatatgttaa 22740
 tttataaatt agattgttat agtataaaca ttttattttt tatattaaat ttgtaattga 22800
 aatattataa cataaataaa atattctatt atgtataata tatctactat tcttagtaat 22860
 aataaaaaata aaataaataa ataatatata ttatactgat tttaaagaat tgtgtataga 22920
 aataaaaaatt aaataaattt tgatgaaaat tatattttac aattaatgat agaattattat 22980
 tcttgagatg agtctcgtgg atgtttattt taatacaaaa tacaaaattt aattctttct 23040
 gaggattaca aaatctttta aagacaaatg catatatata aaacaaatta tattgttatg 23100
 tcataaaaaat ttgtttttga aataatataa aacaaataaa acactatgtc ttcttacgta 23160
 gatgaatata tagatgaaat tataaaaaata aaagaaaatt ctgataatat aacattagat 23220
 attgtcataa aatgtattaa acttatcgac gaagaagatt tatatatattt aagaaataaa 23280
 cgtaaaaattt aaaatgggta tgatgttgat tatttcacta aaagcggaaa ttatataata 23340
 gaaaaagggtg actgggtgtcc tcctaactgt tatataaaaa atataaattt ctataaaaaa 23400
 atgtatggag atgaaaaagg aacacaaatg tatgaaaata tacataaata tgataacgaa 23460
 tatattttat tttattatac taaagatgaa tttaaacata taaaatctga taaaatagat 23520
 gataatttca atgatgtgtt taaaaatata ttaacaaata taataaatta tataaaaaat 23580
 acggattttt attaacttat gttataaaaa aataataatt tttttgaaaa aacatattta 23640
 tattaatata taatcatgga caagtatata ataataaatg gatttataac tatttttagt 23700
 caaattatat gtaatgaata tgattattgt ttaaataaaa taaaaatata aaatcatata 23760
 gtaataata ataattattac tatagatgga tatgatatac acatagataa aataatatat 23820
 ataactaata aatataaaaa attatacgga aacaataata taaatacgaa atatgaaata 23880
 aatattatac gcagaataaa tatattttat gattctaaaa ataaaaatgt atctatgtct 23940
 tgttataata aaaaatgtaa atatgatgat tatatatgta aaattaatga taacgaatat 24000
 atattttggg atgtttttaa ctttgataga gtaataaatt catctaatat aatttatgaa 24060
 tgtgatgata atatcagaga ttttaataaa gtaggactaa tgtcaaaata ttttaaacct 24120
 agtatcataa tattaataat attaatatta ataattattat tattaagatt tatttacatt 24180

```

aaaaaaatat ttcatatata tgaaagcgta agataataaaa ttatTTTTtTat taaacagtat 24240
caggccataa tgattcataa gtaggtaaac tactacgtct atgtctatgt tttttacaaa 24300
catctattaa gaaagatatt gttgcatttt caattttatc aattttaaca gcataaattg 24360
aatatatacc tatcataatt aaaatataac atattaataa tattatatat tgtatttttaa 24420
aattttctat acacaaagtt attataatat ataatgttaa aaatattgat aataatacaa 24480
ataaatatcc tataaataaaa attaataaat caggtagttg tttttttttt ttattttattt 24540
catttttata tttattataa caatcgatac atattttatt atcataatta ttaatattat 24600
taactgacat attgtatata ttatataata ccaagaaata gatcttaatg tatattattt 24660
tttttcaaaa catctttcct attatttata taaatatata aataatatat tataaacatt 24720
ataaatataa caaaatacaa aaataaatta tatatattat ttaatgtag tatagcataa 24780
tcaactatTTt ttaaagaatc taaattccaa atatatataa cgTTaatagg aaataataat 24840
tcaccatttt tatcataaat taataatctc ccaagtgggt cagcatgaaa taatttaaat 24900
gtagtattat tatatattct tatatatctt tcgttatttt ctattggaac agtaccatat 24960
atactatatt cgtatattgt tctaaaaaaa cgtgttattt ttatataaaa atataaatca 25020
aacacccaat gaggtctatt attttctata gttgtaattt ttgcataagt tttttatta 25080
atagataaaa tttgtatatt aagtagtggt aaattattaa aacctataac ttgtatttta 25140
ttcatttatt ttataaatat agacattatt atatccatgg tctccaatat tcttcttggt 25200
tattagttaa tattatctca aatgtaggat aattatctac taataataat ttagtattat 25260
gaactctagt ataatgtatt tttagacctc ttacattcat catcataaga ttacataatt 25320
tacaaaatgc ataattatta tgagaataat ttttttttaa ttctattctc aacatcttgt 25380
ataattatat taattgtaat gatatatTTt caaaaattga atttttaata ataaattaat 25440
aaaataaaca atcatgaata tcaaaaaaat ttgtaaaata ctttttgga tattatttgt 25500
ttttacaact ataataatat atcataatat aactaataat aatgatgaat atgatattga 25560
aagaaatata accgaaatat ataaaatatt aaaaaaatat gaaaaaata ttgataatat 25620
taatgaatat ttaaagaaaa atgatttatc tgaaataata gaatttactg aatctactat 25680
aaaatcaaca gatattacgg attttattaa atcaactgat tctactataa aatcaacaga 25740
tttaagtga atagtatcaa atactacgga ttctattaaa tcaactgatt ctactataaa 25800
atcaacagat ttaagtgaat tactatcaaa tactacggat tctattaaat caactgattc 25860
tactataaaa tcaacagatt taagtgaat actatcaaat actacagatt ctatggattc 25920

```

tattaaatca actgattcta ctataaaatc aacagatttta agtgaaatag tatcaaatac 25980
tacggattct attaaatcaa ctgattctac tataaaatca acagatttta gtgaaatact 26040
atcaaatact acagattcta tggattctat taaatcaact gattctacta taaaatcaac 26100
agattttaagt gaaatagtat caaatactac ggatttctatt aaatcaactg attctactat 26160
aaaatcaaca gattttaagt aaatagtatc aaatactacg gattctatta aatcaactga 26220
ttctactata aaatcaacag attttaagtga aatactatca aatactacgg attctattaa 26280
atcaactgat tctactataa aatcaacaga tttaagtga atactatcaa atactacaga 26340
ttctatggat tctattaaat caactgattc tactataaaa tcaacagatt taagtgaat 26400
agtatcaaat actacggatt ctattaaatc aactgattct actataaaat caacagattt 26460
aagtgaata gtatcaaata ctacggattc tattaaatca actgattcta ctataaaatc 26520
aacagatttta agtgaaatac tatcaaatac tacggattct attaaatcaa ctgattctac 26580
tataaaatca acagatttta gtgaaatagt atcaaatact acagattcta tagattctat 26640
taaatcaact gattctacta taaaatcaac agattttaagt gaaatagtat caaatactac 26700
ggatttctatt aaatcaactg attctactat aaaatcaaca gattttaagag aaatactatc 26760
aaatactaca tattctatgg attctattaa atcaactgat tctactataa aatcaacaga 26820
tataagtga atagtatcaa atactacgga ttctattaaa tcaactgatt ctactattaa 26880
atcaacagat ttaagtga tagtatcaaa tactacggat tctattaaat caactgattc 26940
tactataata tcaacagatt taactgaaat actattcaaa tacttaccag attctattaa 27000
atcaacttga ttctactatt aaaatccacc agatttttagt gaaatagtat caaatactac 27060
ggatttctata gatttaataa atccaactga ttctactata aaatcaacag attttaagtga 27120
aatagtatca aatactacgg attctattaa atcaactgat tctactataa aatcaacaga 27180
tattacagat tctatagatt ctattaaatc aactgattct actataaaat caacagatac 27240
tacggattct atagatttaa taaatccaac tgatttctact ataaaatcaa cagatttaag 27300
tgaaatagta tcaaatacta cggattctat agatttaata aatccaactg attctactat 27360
aaaatcaaca gatattacag attctataga tttaataaat ccaactgatt ctactataaa 27420
atcaacagat actacagatt ctatagattc tattaaatca actgattcta ctataaaatc 27480
aacagatttta agtgaaatag tatcaaatac tacagattct atggattcta ttaaatacaac 27540
tgatttctact acaaaatcaa cagatttaag tgaaatagta tcaaatacta cagattctat 27600

taaatcaact gattctacta taaaatcaac agatactaca gattctatag atttaataaa 27660
 tccaactgat tctactataa aatcaacaga tactacagat tctataaatc tagatgaatc 27720
 tactataaaa tcaacaaata ttacaaattc taaagattat ttaaaacaaa tgtataaaac 27780
 atttttattg aaataatatg ttaaaattaa tatacacaat atggctttat taataaaaga 27840
 agataacaaa aaaactattg taacatttga tatttttaaca ggaaaatgta taacaaaatt 27900
 aatatctaata aacgaatatt acgatattat tgatcgatat aaaaattttt ataataaaaa 27960
 taagaataaa taacttttat atatactctc taatacatat ttataatta taattattaa 28020
 attcgtcatt aaaatatcta aataacgtat aattattttt attatatgaa ttatataat 28080
 tagttgttaa atatctatta cattcatcac ataaaatatt aattaaacaa aatttacata 28140
 ctccgacttt atcttgaata ctatctatat ttcttaattc tacataatca atattattat 28200
 aattaaataa taatttatga cactcaatac atattttctgt atttttttta catatatcac 28260
 ataataatat attaaatttt ttattttcat atctataacc atattttgta gaaaattttt 28320
 taatcgataa attattatat aatttattac atccagaaca taataattta caataattac 28380
 aaattatttg attattatta aaaaacatac atttgcaatt aaaacacaca tttttattta 28440
 ttttttttct taaacctata ggtaaaatat ttaaatcagt tatacttcta attgctatat 28500
 cttgtaattt tataaaatcc ataatgattt atttttataa atatgttttt ttcatatta 28560
 ttatatatta ttttgaaaaa taaaataaat ttataatata ataatcatgg acgtagaacg 28620
 taatttaata aataatagat tatcaacatt tcaaaatgat tataaaaaat atatatacat 28680
 atcaataatt ttaattttat taataataat tattatatta atttggtata taatttttgc 28740
 aaaaaagaa agtaactata ataatgatag taaaactata aataatatta aaaatatata 28800
 ttctaataat atgaatgtta tgtatgatga tgaatttaaa aatgccatta taagatacta 28860
 taataaatat ataaataaaa attcagaaga acaaaaaata tttgaaatag caagaagtag 28920
 aataacttct ttatataata tgaatataac agatattata gattatgata gatgtggagt 28980
 aaaagataat atgaaaatga tgataattga tgaaatgtgt aatgattacg ataatatagt 29040
 taatgtttat tatagattaa ataattgtga taatatcaga tcaagagaaa taaaaaatag 29100
 ttttaaaatg tatgaaaatt ataattattat gttttataat agtgaaaaaa attataacat 29160
 agacatatat tgtaattata ataataataa tttcggcttt atgtataaaa aaaataataa 29220
 aataataatt aacttaaaaa caaaaatttt aagtagatta aagtatgaaa tgtatcatat 29280
 gttaagtcac atattttatt ataaacatga ttttatatta aattcttata catttccata 29340

tatagaatat tataatgata aaaatgaaat agacgaagaa agaatatata tgtttaaaaa 29400
 taatataaga aattgtactt aaaattgaaa tattaataaa aaatataata taacagttat 29460
 gttttggtta atattattaa taccttcatt tattatttgt tgtgagccga aacaaagtaa 29520
 gtatttctgt gatatatatt acgattgtat aaataataat ttaattatga aatcgtgtaa 29580
 taataacgag gttagatata ataatacttg cataacacaa tctgagtata aaaatattac 29640
 tggttaattat tgtcatagat gtaataaaaa tattttaatt ccaggaatac attataatcc 29700
 tttaatgtgt aataaattat ctaattctat gtgttgtttt gaagaagata attatattat 29760
 atattgtact gaacaaaata ataaatatat ttggattaaa gattattata atacagattg 29820
 taaaagtatt ttagaaaaaa taaagtatta atttttgttt tgttgaatat aatatttttaa 29880
 aaaagtattt tcgtttaata attttttaatt taattctaata aaactatcct ttgataaata 29940
 attatatgac atttctatta aacatttaca atcttcata gattttaata aattataatt 30000
 attagattct ttatttattt tatcatttgc tattccgtta attaaatcct tatcataaac 30060
 taaagaataa ttatctaatt taatatatat ttcatttaac atatcttcgt tagcattcat 30120
 ttattataaa tatattgaaa aataaatata taaaataaaa atgtttaaca tggatatttg 30180
 tgaagaatgt ggatatgaag atataaattg tgtttgtatt tatgaatgtg aatattgtgg 30240
 attttctatc tttgaagcat ggtgttgtga ttgttgtata gaatatgatt cttattaatt 30300
 attctgaatc atataaatca gaatattcat catcatTTTT tctattaatt tctgttttta 30360
 attcagttaa aatattaaga attttttcta aaatctcatt agtattttgt attttattaa 30420
 caatagaatt atcaatatct tgtacagaag gcattattta ttattaaaaa ataattattaa 30480
 tgtatatact ataaataaat aataaactta ttaataaata atatttgtat taaaataata 30540
 taattcttct aatttaataa gattttttat tccttctaaa gaaataatat ttgtattatt 30600
 acaatataat atttctaaat taataagatt ttctatacct tttaaagaat taatttttgt 30660
 attatgacaa aataattttt ttaaattaat aagattttct attcctttta gagaatcaag 30720
 ttctgtaaca taacaatgta ttgtttctaa attaataaga ttttttgttt gttttaaaga 30780
 atcaattttt gtataagaac aatctaattt ttttaaatta ataagatttt ctattccttt 30840
 taaagaatta atttttgtat aagaacaatc taattctttt aaattaataa gattttctat 30900
 tccttttaaa gaaactattt ttgtttcaga acaatctaata tcttctaaat taattaaatt 30960
 ttttaattatt tcgataaaat cgatatttat accataacaa attaaatttt ttaaattgggt 31020

tagattttct aaatatttta aagaatcaat atttgtatgt gaacaattta atttttctat 31080
 attaataaga ttttctattc cttttaaaga ataaatattt gtattatgaa aatctaattt 31140
 ttttaaatata ataagatttt gtaattcttt taaagaatta atttttgtat aagaacaatc 31200
 taattttttt aaattaatta gattttgtaa ctctttaaga gaataaatat ttgtttcata 31260
 acattctaata ttttttaaat taataagatt ttttatttct tttaaagaat taatacttgt 31320
 ataagaacaa tctagttttt ctaaattaat gagattttct attccttcga gagaataaat 31380
 aattgtatgt gagcaattta atttttgtaa attaataaga ttttttatct cttttaaaga 31440
 atctattagt gtataagaac aatcaaattc ttttaaatata atgagatttt ctattccttt 31500
 taaagaataa atatttgttt caaaacaata taattctgtt aaattaataa gatttttttaa 31560
 atatactaaa gaattaatat ttgtattaaa acaatataat tcttttaatt taatgagatt 31620
 ttctattcct tttaaagaat cgattcttgt attgtaacaa tataatttta ttaatttagt 31680
 aaaattttca ataccttcta aagattttat ataataatta ttatatatta attcttttaa 31740
 attaataaaa ttctttattt cttttaaaca agaattatat ttttaattat atataagttt 31800
 tgatataata cattttgaat ctataaattg taatttagta tcattatcta aataattaa 31860
 tataatttct aacatttcta caggtaactc cattttaaca taattatttt ttttttcaat 31920
 ttttaatat agaatattaa tataaatgtt taacaataat ttatataaaa taattaattt 31980
 atgtatttat aaccatttaa tatttttaaat aagcagattt tttattatta tatttaaaga 32040
 ataaattttt atattataac aatataattc ttctaaatta ttaagactta ttccttttag 32100
 agaatcaatg attgtatatg aacaatttat ttttttaata ttattaaggc aacatatttc 32160
 ttttaaagaa ttaatttttg taaatttagta agataatgta ttccttttag agaatcaata 32220
 tatgttttag aacaatctaa ttttactaat tttcaataaa ttctaaatat tttaaatata 32280
 taaattataa ttttatgtat gtatctgtat aattaaatat aatttctaaa atttctatag 32340
 gtaaatecat agttagtagt tatgatattt ttttttttca ttttaaaaaa at 32392

<210> 28

<211> 501

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(501)

<223>

<400> 28

atg aat aaa ata caa gtt ata ggt ttt aat aat tta aca cta ctt aat	48
Met Asn Lys Ile Gln Val Ile Gly Phe Asn Asn Leu Thr Leu Leu Asn	
1 5 10 15	

ata caa att tta tct att aat aaa aaa act tat gca aaa att aca act	96
Ile Gln Ile Leu Ser Ile Asn Lys Lys Thr Tyr Ala Lys Ile Thr Thr	
20 25 30	

ata gaa aat aat aga cct cat tgg gtg ttt gat tta tat ttt tat ata	144
Ile Glu Asn Asn Arg Pro His Trp Val Phe Asp Leu Tyr Phe Tyr Ile	
35 40 45	

aaa ata aca cgt ttt ttt aga aca ata tac gaa tat agt ata tat ggt	192
Lys Ile Thr Arg Phe Phe Arg Thr Ile Tyr Glu Tyr Ser Ile Tyr Gly	
50 55 60	

act gtt cca ata gaa aat aac gaa aga tat ata aga ata tat aat aat	240
Thr Val Pro Ile Glu Asn Asn Glu Arg Tyr Ile Arg Ile Tyr Asn Asn	
65 70 75 80	

act aca ttt aaa tta ttt cat gct gaa cca ctt ggg aga tta tta att	288
Thr Thr Phe Lys Leu Phe His Ala Glu Pro Leu Gly Arg Leu Leu Ile	
85 90 95	

tat gat aaa aat ggt gaa tta tta ttt cct att aac gtt ata tat att	336
Tyr Asp Lys Asn Gly Glu Leu Leu Phe Pro Ile Asn Val Ile Tyr Ile	
100 105 110	

tgg aat tta gat tct tta aaa ata gtt gat tat gct ata cta aca tta	384
Trp Asn Leu Asp Ser Leu Lys Ile Val Asp Tyr Ala Ile Leu Thr Leu	
115 120 125	

aat aat ata tat aat tta ttt ttg tat ttt gtt ata ttt ata atg ttt	432
Asn Asn Ile Tyr Asn Leu Phe Leu Tyr Phe Val Ile Phe Ile Met Phe	
130 135 140	

ata ata tat tat tta tat att tat ata aat aat agg aaa gat gtt ttg	480
Ile Ile Tyr Tyr Leu Tyr Ile Tyr Ile Asn Asn Arg Lys Asp Val Leu	
145 150 155 160	

aaa aaa aat aat ata cat taa	501
Lys Lys Asn Asn Ile His	
165	

<210> 29

<211> 432

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (432)

<223>

<400> 29

atg gaa cca ata ttt aaa tat atg ttt gtt aca gaa aat gct ttt gaa	48
Met Glu Pro Ile Phe Lys Tyr Met Phe Val Thr Glu Asn Ala Phe Glu	
1 5 10 15	
cct att aga cag aca tca aaa tct gca gga atg gat tta aaa agt gca	96
Pro Ile Arg Gln Thr Ser Lys Ser Ala Gly Met Asp Leu Lys Ser Ala	
20 25 30	
tat gat tat att gtt tca gca cat gat aaa aaa tta ata aaa act gat	144
Tyr Asp Tyr Ile Val Ser Ala His Asp Lys Lys Leu Ile Lys Thr Asp	
35 40 45	
tta att ata gaa att cct aaa gga tgt tat gca aga tta gct ccc aga	192
Leu Ile Ile Glu Ile Pro Lys Gly Cys Tyr Ala Arg Leu Ala Pro Arg	
50 55 60	
tct gat tta gct cta aat aaa ttt att gat att gga gct gga gta att	240
Ser Asp Leu Ala Leu Asn Lys Phe Ile Asp Ile Gly Ala Gly Val Ile	
65 70 75 80	
gac gaa gat tat aga gga aat gtg gga gta ata tta ttt aat cat tct	288
Asp Glu Asp Tyr Arg Gly Asn Val Gly Val Ile Leu Phe Asn His Ser	
85 90 95	
aat gaa gat ttt ata ata aat aga gga gat aga ata tct caa tta ata	336
Asn Glu Asp Phe Ile Ile Asn Arg Gly Asp Arg Ile Ser Gln Leu Ile	
100 105 110	
tgt gaa aaa att tta tat cct aaa atg tta aaa gtc gat agt tta tca	384
Cys Glu Lys Ile Leu Tyr Pro Lys Met Leu Lys Val Asp Ser Leu Ser	
115 120 125	
gaa aca aaa aga tct gat ttt ggt ttt gga tct act ggt tat aat taa	432
Glu Thr Lys Arg Ser Asp Phe Gly Phe Gly Ser Thr Gly Tyr Asn	
130 135 140	

<210> 30

<211> 780

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (780)

<223>

<400> 30

atg	ttt	aaa	aca	gat	tta	act	aat	gaa	gaa	gta	tca	gaa	gct	gct	aat	48
Met	Phe	Lys	Thr	Asp	Leu	Thr	Asn	Glu	Glu	Val	Ser	Glu	Ala	Ala	Asn	
1				5				10						15		

aaa	tta	ata	aaa	aat	aat	act	tgt	aat	ttc	tat	gaa	tta	aaa	tta	gaa	96
Lys	Leu	Ile	Lys	Asn	Asn	Thr	Cys	Asn	Phe	Tyr	Glu	Leu	Lys	Leu	Glu	
			20					25					30			

aat	att	tta	gac	aat	att	gat	tta	aca	aat	aat	tgt	ata	tat	tgt	aat	144
Asn	Ile	Leu	Asp	Asn	Ile	Asp	Leu	Thr	Asn	Asn	Cys	Ile	Tyr	Cys	Asn	
		35					40					45				

gat	gta	att	aaa	gat	aaa	att	att	ata	gat	aca	aac	aat	ata	aaa	gtg	192
Asp	Val	Ile	Lys	Asp	Lys	Ile	Ile	Ile	Asp	Thr	Asn	Asn	Ile	Lys	Val	
	50					55					60					

gga	tat	ttt	tgt	aca	ata	aca	tgc	aaa	cac	ata	tat	tat	tca	ata	ata	240
Gly	Tyr	Phe	Cys	Thr	Ile	Thr	Cys	Lys	His	Ile	Tyr	Tyr	Ser	Ile	Ile	
65					70				75					80		

aga	aca	att	ttc	aat	tta	ccc	att	cat	aaa	att	att	aat	ttt	ata	cca	288
Arg	Thr	Ile	Phe	Asn	Leu	Pro	Ile	His	Lys	Ile	Ile	Asn	Phe	Ile	Pro	
				85					90					95		

ttt	ttt	tta	tta	tcc	gaa	gaa	tct	aaa	att	aaa	tat	aaa	aat	ata	aaa	336
Phe	Phe	Leu	Leu	Ser	Glu	Glu	Ser	Lys	Ile	Lys	Tyr	Lys	Asn	Ile	Lys	
			100					105					110			

aat	att	att	aat	tat	tat	aat	tat	gat	gat	ata	tct	att	ttt	agt	aaa	384
Asn	Ile	Ile	Asn	Tyr	Tyr	Asn	Tyr	Asp	Asp	Ile	Ser	Ile	Phe	Ser	Lys	
		115					120					125				

tat	aaa	gat	aat	aat	aat	ata	tat	act	gaa	ttt	aaa	tta	tta	att	aat	432
Tyr	Lys	Asp	Asn	Asn	Asn	Ile	Tyr	Thr	Glu	Phe	Lys	Leu	Leu	Ile	Asn	
	130					135					140					

```

aat aaa ttt att tat ctc caa gaa tcg ttt gaa tat ata tca aaa agt      480
Asn Lys Phe Ile Tyr Leu Gln Glu Ser Phe Glu Tyr Ile Ser Lys Ser
145                      150                      155                      160

aat aat tgt ata tat tgt tat tct act aat ata aat gat aaa ata ata      528
Asn Asn Cys Ile Tyr Cys Tyr Ser Thr Asn Ile Asn Asp Lys Ile Ile
                      165                      170                      175

tta gag cat aat aat gga att att aaa ggt ttt tgt tct ata gtt tgt      576
Leu Glu His Asn Asn Gly Ile Ile Lys Gly Phe Cys Ser Ile Val Cys
                      180                      185                      190

aga gat tcg ata tct aaa caa ata tat aat aca att atg cct att tat      624
Arg Asp Ser Ile Ser Lys Gln Ile Tyr Asn Thr Ile Met Pro Ile Tyr
                      195                      200                      205

aaa ttt agt gca tat ttg gta cca ttt gaa tta ata aaa aat aaa aaa      672
Lys Phe Ser Ala Tyr Leu Val Pro Phe Glu Leu Ile Lys Asn Lys Lys
                      210                      215                      220

gaa ttt tta aat aat att aat cat ata aaa aat att gat aat tta tat      720
Glu Phe Leu Asn Asn Ile Asn His Ile Lys Asn Ile Asp Asn Leu Tyr
225                      230                      235                      240

ggt ggt tat tgt cat tta act aat aat aaa act aaa gta gaa tta ttt      768
Gly Gly Tyr Cys His Leu Thr Asn Asn Lys Thr Lys Val Glu Leu Phe
                      245                      250                      255

att aca aat taa
Ile Thr Asn
780

```

<210> 31

<211> 1050

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1050)

<223>

<400> 31

```

atg gtt ttc gaa cat aag ata ttt tca tat aat ttt act gat att aaa      48
Met Val Phe Glu His Lys Ile Phe Ser Tyr Asn Phe Thr Asp Ile Lys

```

1	5	10	15	
aaa aaa aaa ata tat cca ata tgc aat tgt att att aat att ttt gat				96
Lys Lys Lys Ile Tyr Pro Ile Cys Asn Cys Ile Ile Asn Ile Phe Asp				
20		25	30	
aaa gaa att aaa ata cca act tta act aaa gca ata ata gac acc aaa				144
Lys Glu Ile Lys Ile Pro Thr Leu Thr Lys Ala Ile Ile Asp Thr Lys				
35		40	45	
cat aat tta gga cct ata tat cta aat ata gct aat atg ctg gcg tat				192
His Asn Leu Gly Pro Ile Tyr Leu Asn Ile Ala Asn Met Leu Ala Tyr				
50		55	60	
gtt gat ata ata tat tta ttt aat aat aat tta gat gaa ata aat aat				240
Val Asp Ile Ile Tyr Leu Phe Asn Asn Asn Leu Asp Glu Ile Asn Asn				
65		70	75	80
tgt ggt ata tac tta ccg att att gac gat ggt agc aaa cat ttt tta				288
Cys Gly Ile Tyr Leu Pro Ile Ile Asp Asp Gly Ser Lys His Phe Leu				
85		90	95	
act tat aaa gat ata aaa tta ttt ata ttt gat gac gaa act ggt aaa				336
Thr Tyr Lys Asp Ile Lys Leu Phe Ile Phe Asp Asp Glu Thr Gly Lys				
100		105	110	
ata aaa att att gat aat cct aaa cat tct gat aaa cat cat ata ata				384
Ile Lys Ile Ile Asp Asn Pro Lys His Ser Asp Lys His His Ile Ile				
115		120	125	
aat tta tct aaa gaa cgt aaa aca gat gat gct ata ggt tca tca cac				432
Asn Leu Ser Lys Glu Arg Lys Thr Asp Asp Ala Ile Gly Ser Ser His				
130		135	140	
gtt tta tta ttt tca tgt aat tca aaa att gaa gaa aat atc aat ttg				480
Val Leu Leu Phe Ser Cys Asn Ser Lys Ile Glu Glu Asn Ile Asn Leu				
145		150	155	160
cat aaa aat att tta tta aca ttt aaa gat tat cct gtg aaa gtt gat				528
His Lys Asn Ile Leu Leu Thr Phe Lys Asp Tyr Pro Val Lys Val Asp				
165		170	175	
ata aaa aat gaa ata gaa aat tct aaa cat tat tat gaa aaa aat tta				576
Ile Lys Asn Glu Ile Glu Asn Ser Lys His Tyr Tyr Glu Lys Asn Leu				
180		185	190	
tta tat aaa aaa cca ttt tct atg tat agc aaa tat cat gaa gaa aaa				624
Leu Tyr Lys Lys Pro Phe Ser Met Tyr Ser Lys Tyr His Glu Glu Lys				
195		200	205	
gat att tat act ata gat ata aga tat aat cat tat gat gat att cct				672
Asp Ile Tyr Thr Ile Asp Ile Arg Tyr Asn His Tyr Asp Asp Ile Pro				
210		215	220	
aaa gaa aat ata aaa aaa ttc ttt att gat ata ttt aat aaa ata gca				720
Lys Glu Asn Ile Lys Lys Phe Phe Ile Asp Ile Phe Asn Lys Ile Ala				
225		230	235	240

```

gat ata ttt gaa aat att aaa att aaa aat aat gtt gat tat agt      768
Asp Ile Phe Glu Asn Ile Lys Ile Lys Lys Asn Asn Val Asp Tyr Ser
                245                      250                      255

aat aaa ata agt tat tct aat ata tta gat cat aaa atg aat tat aaa      816
Asn Lys Ile Ser Tyr Ser Asn Ile Leu Asp His Lys Met Asn Tyr Lys
                260                      265                      270

tat att aac gta gat gat att ata gaa aag aat aaa atg gat gca ttg      864
Tyr Ile Asn Val Asp Asp Ile Ile Glu Lys Asn Lys Met Asp Ala Leu
                275                      280                      285

tgt tct ata aat gat ata cct gga ata aat gga aca tat tta aaa cca      912
Cys Ser Ile Asn Asp Ile Pro Gly Ile Asn Gly Thr Tyr Leu Lys Pro
                290                      295                      300

tca gat gaa gag att aat gac gca gaa tat tca tta aat act att atg      960
Ser Asp Glu Glu Ile Asn Asp Ala Glu Tyr Ser Leu Asn Thr Ile Met
                305                      310                      315                      320

aga aat aca ata aaa gaa tta tta gaa tct ttt ata aat ttt att gat      1008
Arg Asn Thr Ile Lys Glu Leu Leu Glu Ser Phe Ile Asn Phe Ile Asp
                325                      330                      335

gaa aca tac gaa gaa cgt tta aat agt aaa aat ata tat taa      1050
Glu Thr Tyr Glu Glu Arg Leu Asn Ser Lys Asn Ile Tyr
                340                      345

```

<210> 32

<211> 2469

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2469)

<223>

```

<400> 32
atg gat cag ata gaa ata att aaa act att aat agt atg ata gaa tat      48
Met Asp Gln Ile Glu Ile Ile Lys Thr Ile Asn Ser Met Ile Glu Tyr
1                5                10                15

ata aaa aat acc aaa gat aag tta tct ata gat aat ttt ata ttc gaa      96
Ile Lys Asn Thr Lys Asp Lys Leu Ser Ile Asp Asn Phe Ile Phe Glu

```

20	25	30	
cat aaa gat tta tat gat aat gta gtt att tat tca aaa tat tta tca			144
His Lys Asp Leu Tyr Asp Asn Val Val Ile Tyr Ser Lys Tyr Leu Ser			
35	40	45	
gat aaa gat ttt aaa ttt tta tac gtt att gta gaa aaa tat cca gac			192
Asp Lys Asp Phe Lys Phe Leu Tyr Val Ile Val Glu Lys Tyr Pro Asp			
50	55	60	
gca aat cca aat ata ata tat aat ata ttt aaa aca tca cag ata tct			240
Ala Asn Pro Asn Ile Ile Tyr Asn Ile Phe Lys Thr Ser Gln Ile Ser			
65	70	75	80
ata acg caa gat att aat ata aat aaa ata ata cag aat aaa gat aat			288
Ile Thr Gln Asp Ile Asn Ile Asn Lys Ile Ile Gln Asn Lys Asp Asn			
85	90	95	
aca aaa ata aac caa gat ata cac aca tat aat tat ttg tta tta tta			336
Thr Lys Ile Asn Gln Asp Ile His Thr Tyr Asn Tyr Leu Leu Leu Leu			
100	105	110	
aat aaa tta tat ata ttt caa cca ata cca aaa ttt ata aat ata tta			384
Asn Lys Leu Tyr Ile Phe Gln Pro Ile Pro Lys Phe Ile Asn Ile Leu			
115	120	125	
tgg gat ata aaa tca aaa aat gta gat aat cta gac aaa ata aat aat			432
Trp Asp Ile Lys Ser Lys Asn Val Asp Asn Leu Asp Lys Ile Asn Asn			
130	135	140	
ata aat aca aat tcg tta aat ata att aca aat ata gaa atg tca aaa			480
Ile Asn Thr Asn Ser Leu Asn Ile Ile Thr Asn Ile Glu Met Ser Lys			
145	150	155	160
gtt aat att att tat ata tca ttt aca tat att tca tct tat ata gaa			528
Val Asn Ile Ile Tyr Ile Ser Phe Thr Tyr Ile Ser Ser Tyr Ile Glu			
165	170	175	
tca cat aaa agt gaa ctt acg tta aat aaa aaa ttt tct att tat gat			576
Ser His Lys Ser Glu Leu Thr Leu Asn Lys Lys Phe Ser Ile Tyr Asp			
180	185	190	
aat tta aga aga ata att ggc gtt cct ata tct aat aat aac tat aaa			624
Asn Leu Arg Arg Ile Ile Gly Val Pro Ile Ser Asn Asn Asn Tyr Lys			
195	200	205	
tta aat tat tat att aaa gct aaa ata gat tca gaa aca tta ata tat			672
Leu Asn Tyr Tyr Ile Lys Ala Lys Ile Asp Ser Glu Thr Leu Ile Tyr			
210	215	220	
aat ata ttt aat tct gta gct ttt aaa aaa gta ata ata tat gga ttt			720
Asn Ile Phe Asn Ser Val Ala Phe Lys Lys Val Ile Ile Tyr Gly Phe			
225	230	235	240
gga gtt tat caa ata aaa gat gta aaa aat ata ata aaa gat acg att			768
Gly Val Tyr Gln Ile Lys Asp Val Lys Asn Ile Ile Lys Asp Thr Ile			
245	250	255	

aat gat gtt tcg tca tac ata gtt aat aat aat aaa gaa aaa ttg tat	816
Asn Asp Val Ser Ser Tyr Ile Val Asn Asn Asn Lys Glu Lys Leu Tyr	
260 265 270	
caa cgt aca tac tgt tgt tgt tat ttt tta aac tgt tat tat gaa aaa	864
Gln Arg Thr Tyr Cys Cys Cys Tyr Phe Leu Asn Cys Tyr Tyr Glu Lys	
275 280 285	
att ttt aaa aat tta tcc aca caa aca tat gat aaa ata tta tat tca	912
Ile Phe Lys Asn Leu Ser Thr Gln Thr Tyr Asp Lys Ile Leu Tyr Ser	
290 295 300	
aat gta gtt aat att aat gat gtt att cat aaa aaa tat gaa tat ttc	960
Asn Val Val Asn Ile Asn Asp Val Ile His Lys Lys Tyr Glu Tyr Phe	
305 310 315 320	
gaa tgt caa cat gta caa gaa tat aaa aat gtt ttt aaa aat gta gaa	1008
Glu Cys Gln His Val Gln Glu Tyr Lys Asn Val Phe Lys Asn Val Glu	
325 330 335	
aat ttt tat att aat act aat aaa ttt cta gaa aat tat att aat att	1056
Asn Phe Tyr Ile Asn Thr Asn Lys Phe Leu Glu Asn Tyr Ile Asn Ile	
340 345 350	
gtt aat aaa gta gct ata tgt aaa att tgt gga gaa tcg tta gat atg	1104
Val Asn Lys Val Ala Ile Cys Lys Ile Cys Gly Glu Ser Leu Asp Met	
355 360 365	
ttt aat ttt gaa gaa gca aat tat att caa tct aaa ggc gaa att ata	1152
Phe Asn Phe Glu Glu Ala Asn Tyr Ile Gln Ser Lys Gly Glu Ile Ile	
370 375 380	
ata aca aca aat aaa gaa aat att ttc caa tat gaa act tat tca aga	1200
Ile Thr Thr Asn Lys Glu Asn Ile Phe Gln Tyr Glu Thr Tyr Ser Arg	
385 390 395 400	
tta gtt aat gct gaa tta ttt tta aca gat att ata gga att tat gat	1248
Leu Val Asn Ala Glu Leu Phe Leu Thr Asp Ile Ile Gly Ile Tyr Asp	
405 410 415	
gat att ttt aac aca aac aga atg gac gat ttt aat aat ata tct aga	1296
Asp Ile Phe Asn Thr Asn Arg Met Asp Asp Phe Asn Asn Ile Ser Arg	
420 425 430	
ata att att gat ttt ttt att gat att aac aca aat aga tta gaa tat	1344
Ile Ile Ile Asp Phe Phe Ile Asp Ile Asn Thr Asn Arg Leu Glu Tyr	
435 440 445	
caa gat aaa tat aaa aaa caa atc tct aac tcc aaa tta ttt ttt ata	1392
Gln Asp Lys Tyr Lys Lys Gln Ile Ser Asn Ser Lys Leu Phe Phe Ile	
450 455 460	
aga ttg tca aat aat tta ttt ata gca gtt tat aat gaa aaa gaa caa	1440
Arg Leu Ser Asn Asn Leu Phe Ile Ala Val Tyr Asn Glu Lys Glu Gln	
465 470 475 480	

tat gcc gaa gaa aga caa cta aac atg ttt ata ata ttc gga ata tct	1488
Tyr Ala Glu Glu Arg Gln Leu Asn Met Phe Ile Ile Phe Gly Ile Ser	
485 490 495	
tta tta tta tta agt aat ttt aat gaa tta ata ggt ata ata aaa aat	1536
Leu Leu Leu Leu Ser Asn Phe Asn Glu Leu Ile Gly Ile Ile Lys Asn	
500 505 510	
aat aaa aaa tta aaa act ata ttt gat aat caa aat gat att aaa ata	1584
Asn Lys Lys Leu Lys Thr Ile Phe Asp Asn Gln Asn Asp Ile Lys Ile	
515 520 525	
aat tta gat aat ttt ata aaa gat act gta ttc ata tat ata agt agg	1632
Asn Leu Asp Asn Phe Ile Lys Asp Thr Val Phe Ile Tyr Ile Ser Arg	
530 535 540	
aat aga tta ata gat aaa aaa agt aga gaa ttg att aat tat gat act	1680
Asn Arg Leu Ile Asp Lys Lys Ser Arg Glu Leu Ile Asn Tyr Asp Thr	
545 550 555 560	
ata att gat gtt tat tta aat ata tta act ccc gaa tta aaa tcg tgt	1728
Ile Ile Asp Val Tyr Leu Asn Ile Leu Thr Pro Glu Leu Lys Ser Cys	
565 570 575	
tat aat ata ata tta aat aga tta tat aaa aat ata gat att tta aaa	1776
Tyr Asn Ile Ile Leu Asn Arg Leu Tyr Lys Asn Ile Asp Ile Leu Lys	
580 585 590	
tat gat tat ata gaa tta cca gat att cca tta cta ccc gta aca tta	1824
Tyr Asp Tyr Ile Glu Leu Pro Asp Ile Pro Leu Leu Pro Val Thr Leu	
595 600 605	
gga tat aaa cac aaa aat att gat act ggt cct aca ata tct ttt tta	1872
Gly Tyr Lys His Lys Asn Ile Asp Thr Gly Pro Thr Ile Ser Phe Leu	
610 615 620	
cca ctc gaa gat gta att aat tat aat aat gta aat att tat gaa agt	1920
Pro Leu Glu Asp Val Ile Asn Tyr Asn Asn Val Asn Ile Tyr Glu Ser	
625 630 635 640	
aat att aga tat att aca tac gat acg tta aaa att aaa aat tta tct	1968
Asn Ile Arg Tyr Ile Thr Tyr Asp Thr Leu Lys Ile Lys Asn Leu Ser	
645 650 655	
gat ttt gat att aaa gat ata aat gtt gaa tta aaa act ata att gaa	2016
Asp Phe Asp Ile Lys Asp Ile Asn Val Glu Leu Lys Thr Ile Ile Glu	
660 665 670	
aga ttt aat tct gaa tat tac tat aga aat att agt ata tta aac ttt	2064
Arg Phe Asn Ser Glu Tyr Tyr Tyr Arg Asn Ile Ser Ile Leu Asn Phe	
675 680 685	
gaa cag atg gat aat tat aat ttt tat ata gat ata gga caa aaa tat	2112
Glu Gln Met Asp Asn Tyr Asn Phe Tyr Ile Asp Ile Gly Gln Lys Tyr	
690 695 700	
ttt ttt tat ata aat gat gta tta tcg aat agt aat att gta ata aaa	2160

Phe Phe Tyr Ile Asn Asp Val Leu Ser Asn Ser Asn Ile Val Ile Lys
 705 710 715 720
 agt aat att tat tct aaa ata atg aat ttt ggt gat tct ttg cca ttt 2208
 Ser Asn Ile Tyr Ser Lys Ile Met Asn Phe Gly Asp Ser Leu Pro Phe
 725 730 735
 tta aat aaa ata tat aaa ttt cat tat aca tta tta ttt gat aat ctg 2256
 Leu Asn Lys Ile Tyr Lys Phe His Tyr Thr Leu Leu Phe Asp Asn Leu
 740 745 750
 aat tta tta ata aat ttt tta tat ccg aat gtt aaa att ata ttt aat 2304
 Asn Leu Leu Ile Asn Phe Leu Tyr Pro Asn Val Lys Ile Ile Phe Asn
 755 760 765
 tat gat caa gat tat ata act aga gat tat ttt cat tat att gtt tat 2352
 Tyr Asp Gln Asp Tyr Ile Thr Arg Asp Tyr Phe His Tyr Ile Val Tyr
 770 775 780
 aat ata tta att tca tta att aat act aat ata tta tca tgg ata gat 2400
 Asn Ile Leu Ile Ser Leu Ile Asn Thr Asn Ile Leu Ser Trp Ile Asp
 785 790 795 800
 gta aac aaa gat ata ata tct aaa tta tat gat aat act tta aga ttt 2448
 Val Asn Lys Asp Ile Ile Ser Lys Leu Tyr Asp Asn Thr Leu Arg Phe
 805 810 815
 tat gtt aaa aat ata tat taa 2469
 Tyr Val Lys Asn Ile Tyr
 820

<210> 33

<211> 1410

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1410)

<223>

<400> 33

atg gtt aaa tat att aaa tta aat aaa aaa ata ttt aat tat ata aaa 48
 Met Val Lys Tyr Ile Lys Leu Asn Lys Lys Ile Phe Asn Tyr Ile Lys
 1 5 10 15

tca aga tta aaa tca caa gaa ata tta ata tat gat aaa aat tct aat	96
Ser Arg Leu Lys Ser Gln Glu Ile Leu Ile Tyr Asp Lys Asn Ser Asn	
20 25 30	
cat gct ata att aca aat gat atg ata gaa aat att gat tta gat ata	144
His Ala Ile Ile Thr Asn Asp Met Ile Glu Asn Ile Asp Leu Asp Ile	
35 40 45	
ata tgt ccg ttg att ttg tat aac gaa aat gat aaa att att gac aaa	192
Ile Cys Pro Leu Ile Leu Tyr Asn Glu Asn Asp Lys Ile Ile Asp Lys	
50 55 60	
att aat aat atg gat aaa ttt att gag tgt aaa tat caa tta agg gaa	240
Ile Asn Asn Met Asp Lys Phe Ile Glu Cys Lys Tyr Gln Leu Arg Glu	
65 70 75 80	
gat caa tta gag tta att aat aat ata atg aat att aat aat aat tat	288
Asp Gln Leu Glu Leu Ile Asn Asn Ile Met Asn Ile Asn Asn Asn Tyr	
85 90 95	
tct tgt aat tca ccc ata tat tta tca tta gta tgt cct tgt gga tat	336
Ser Cys Asn Ser Pro Ile Tyr Leu Ser Leu Val Cys Pro Cys Gly Tyr	
100 105 110	
ggt aaa act ata ttg ggt ata gat ata ata tct aga tta aaa tac aaa	384
Gly Lys Thr Ile Leu Gly Ile Asp Ile Ile Ser Arg Leu Lys Tyr Lys	
115 120 125	
tgt gct ata att gta cct aga att ttt att ata tat caa tgg tta gat	432
Cys Ala Ile Ile Val Pro Arg Ile Phe Ile Ile Tyr Gln Trp Leu Asp	
130 135 140	
aaa ata aaa caa aaa aat aat ata ttt gca tct acg tgt ggt aga aaa	480
Lys Ile Lys Gln Lys Asn Asn Ile Phe Ala Ser Thr Cys Gly Arg Lys	
145 150 155 160	
aaa gcg att gaa caa ata aaa aat ggt tta gag tgt gat gtg ttt ata	528
Lys Ala Ile Glu Gln Ile Lys Asn Gly Leu Glu Cys Asp Val Phe Ile	
165 170 175	
tgt cct gat aaa cat tta gaa aat gat att att aga aat tat ata tat	576
Cys Pro Asp Lys His Leu Glu Asn Asp Ile Ile Arg Asn Tyr Ile Tyr	
180 185 190	
aat acg tgt agt tta gta att gtt gat gaa gct cat cga tat aat gct	624
Asn Thr Cys Ser Leu Val Ile Val Asp Glu Ala His Arg Tyr Asn Ala	
195 200 205	
aat aaa aat ata gta atg act aga ttt tta tat aat aaa ata ttt aaa	672
Asn Lys Asn Ile Val Met Thr Arg Phe Leu Tyr Asn Lys Ile Phe Lys	
210 215 220	
ttt tgt ttg ttt tta act gct acg cca tct aat aat atg aat act ttt	720
Phe Cys Leu Phe Leu Thr Ala Thr Pro Ser Asn Asn Met Asn Thr Phe	
225 230 235 240	
ata aat gaa ttt att gat att aat aat caa tca cag att aaa ata tta	768

Ile Asn Glu Phe	Ile Asp Ile Asn Asn Gln Ser Gln Ile Lys Ile Leu	
245	250	255
aat gat att aaa aaa aaa tta att ata ttt aat ttg aaa gat aaa ata		816
Asn Asp Ile Lys Lys Lys Leu Ile Ile Phe Asn Leu Lys Asp Lys Ile		
260	265	270
ttt act cca att aat aat aat tgt aaa tat tat gtt aat aaa ata aca		864
Phe Thr Pro Ile Asn Asn Asn Cys Lys Tyr Tyr Val Asn Lys Ile Thr		
275	280	285
aat aat aaa ttc aat aat ata tat ata aaa aat ttt aat tac aaa tat		912
Asn Asn Lys Phe Asn Asn Ile Tyr Ile Lys Asn Phe Asn Tyr Lys Tyr		
290	295	300
tgt att tct ctt gat gat aaa aga aat gaa att att ata gat tta ata		960
Cys Ile Ser Leu Asp Asp Lys Arg Asn Glu Ile Ile Ile Asp Leu Ile		
305	310	315
tta aaa aca act acg gat aat aca aaa tgt tta att ttg aca gat tat		1008
Leu Lys Thr Thr Thr Asp Asn Thr Lys Cys Leu Ile Leu Thr Asp Tyr		
325	330	335
aga tta cac atg atg aat ata tat aat tta tta aaa aaa aca cac tta		1056
Arg Leu His Met Met Asn Ile Tyr Asn Leu Leu Lys Lys Thr His Leu		
340	345	350
caa aat ata att tat ata tat gat gta aaa aat aaa aaa tgt aat gat		1104
Gln Asn Ile Ile Tyr Ile Tyr Asp Val Lys Asn Lys Lys Cys Asn Asp		
355	360	365
ttg tta aca gaa att aaa aat aag aat gaa aaa ttt att att ata tca		1152
Leu Leu Thr Glu Ile Lys Asn Lys Asn Glu Lys Phe Ile Ile Ile Ser		
370	375	380
act ata tct gct tgt tct gaa tca tta gat att aat aat tta aat act		1200
Thr Ile Ser Ala Cys Ser Glu Ser Leu Asp Ile Asn Asn Leu Asn Thr		
385	390	395
ttt cat gtt tta tta cct att act aat tct aaa aca ata aaa caa tgc		1248
Phe His Val Leu Leu Pro Ile Thr Asn Ser Lys Thr Ile Lys Gln Cys		
405	410	415
ata ggt aga att atg aga aat atg aac gaa gat aaa tat act tat ata		1296
Ile Gly Arg Ile Met Arg Asn Met Asn Glu Asp Lys Tyr Thr Tyr Ile		
420	425	430
tat aat ttt tct aac atc aat aac atg att aat atg tat att aat gat		1344
Tyr Asn Phe Ser Asn Ile Asn Asn Met Ile Asn Met Tyr Ile Asn Asp		
435	440	445
aaa act gat tta ata aga aaa gta ttg tct gat tgg gaa tgt gta gaa		1392
Lys Thr Asp Leu Ile Arg Lys Val Leu Ser Asp Trp Glu Cys Val Glu		
450	455	460
ata aaa tgt tca tat taa		1410
Ile Lys Cys Ser Tyr		

465

<210> 34

<211> 768

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (768)

<223>

<400> 34

atg	tat	tgt	aac	cca	ata	gca	ttt	ata	tct	gat	ttt	gat	aat	tca	tac	48
Met	Tyr	Cys	Asn	Pro	Ile	Ala	Phe	Ile	Ser	Asp	Phe	Asp	Asn	Ser	Tyr	
1			5				10				15					

gct	ggt	aga	ggt	aga	tac	ata	gat	aat	ttt	ata	gct	gga	gct	aca	aat	96
Ala	Gly	Arg	Val	Arg	Tyr	Ile	Asp	Asn	Phe	Ile	Ala	Gly	Ala	Thr	Asn	
		20					25				30					

att	cca	gat	aat	aaa	act	att	ttt	aaa	ata	att	gga	gga	aaa	ggt	ggt	144
Ile	Pro	Asp	Asn	Lys	Thr	Ile	Phe	Lys	Ile	Ile	Gly	Gly	Lys	Gly	Val	
		35					40				45					

ttt	tta	aaa	act	aat	agt	caa	tat	aac	act	ata	cca	tat	aca	tca	cct	192
Phe	Leu	Lys	Thr	Asn	Ser	Gln	Tyr	Asn	Thr	Ile	Pro	Tyr	Thr	Ser	Pro	
	50					55				60						

act	aaa	aaa	aaa	aat	aat	tac	tta	gtc	tat	aat	ata	tat	gat	ttg	cga	240
Thr	Lys	Lys	Lys	Asn	Asn	Tyr	Leu	Val	Tyr	Asn	Ile	Tyr	Asp	Leu	Arg	
65				70					75				80			

gat	tat	att	agt	gaa	aat	tca	aaa	ttc	tcg	ata	aat	gat	ttt	atg	aat	288
Asp	Tyr	Ile	Ser	Glu	Asn	Ser	Lys	Phe	Ser	Ile	Asn	Asp	Phe	Met	Asn	
			85				90					95				

aat	att	aat	aat	tcg	tca	caa	aat	aat	aga	att	atg	ggt	ctg	agt	ggt	336
Asn	Ile	Asn	Asn	Ser	Ser	Gln	Asn	Asn	Arg	Ile	Met	Val	Leu	Ser	Gly	
		100					105				110					

gat	aca	aaa	tat	aaa	ata	aga	aat	cct	aat	aga	tta	ata	ttt	tct	gat	384
Asp	Thr	Lys	Tyr	Lys	Ile	Arg	Asn	Pro	Asn	Arg	Leu	Ile	Phe	Ser	Asp	
		115					120				125					

aca	tct	tat	cct	att	tta	ggt	act	tat	aat	tta	aat	gat	aaa	att	aat	432
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Thr	Ser	Tyr	Pro	Ile	Leu	Val	Thr	Tyr	Asn	Leu	Asn	Asp	Lys	Ile	Asn	
130						135					140					
ata	tct	atc	gaa	aac	cca	aat	gaa	aaa	gta	gaa	aaa	tat	gaa	ata	ccc	480
Ile	Ser	Ile	Glu	Asn	Pro	Asn	Glu	Lys	Val	Glu	Lys	Tyr	Glu	Ile	Pro	
145					150					155					160	
gaa	gat	gtt	tgc	tat	gtc	tat	aaa	caa	aaa	gat	aca	tat	gta	atg	tcg	528
Glu	Asp	Val	Cys	Tyr	Val	Tyr	Lys	Gln	Lys	Asp	Thr	Tyr	Val	Met	Ser	
				165					170					175		
gtt	aat	gtt	aaa	cgt	ttg	acg	cca	gta	gat	ata	tat	tat	att	act	acc	576
Val	Asn	Val	Lys	Arg	Leu	Thr	Pro	Val	Asp	Ile	Tyr	Tyr	Ile	Thr	Thr	
			180					185					190			
gaa	gtt	gat	caa	aat	aat	tca	aat	aat	ata	aaa	tct	ata	aaa	ata	gaa	624
Glu	Val	Asp	Gln	Asn	Asn	Ser	Asn	Asn	Ile	Lys	Ser	Ile	Lys	Ile	Glu	
		195					200					205				
gat	aca	tca	gaa	cct	tta	gaa	ata	cac	cca	tct	tat	aga	aaa	ata	tta	672
Asp	Thr	Ser	Glu	Pro	Leu	Glu	Ile	His	Pro	Ser	Tyr	Arg	Lys	Ile	Leu	
	210					215					220					
gta	aca	aaa	tta	gtg	gat	ttt	att	aat	caa	aat	ata	aaa	cca	act	aat	720
Val	Thr	Lys	Leu	Val	Asp	Phe	Ile	Asn	Gln	Asn	Ile	Lys	Pro	Thr	Asn	
225					230					235					240	
ttt	aat	ttt	tca	gaa	tat	ttt	gat	aag	tat	ata	aat	act	act	aaa	taa	768
Phe	Asn	Phe	Ser	Glu	Tyr	Phe	Asp	Lys	Tyr	Ile	Asn	Thr	Thr	Lys		
				245					250					255		

<210> 35

<211> 3591

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (3591)

<223>

<400> 35

atg	aat	aat	ccg	att	gaa	gaa	gat	att	gca	aat	tta	ttt	ttg	caa		48
Met	Asn	Asn	Asn	Pro	Ile	Glu	Glu	Asp	Ile	Ala	Asn	Leu	Phe	Leu	Gln	
1				5				10					15			

tgc gat cct aga ttg gat ata aaa tct aaa gtt ttg att aat gta gaa	96
Cys Asp Pro Arg Leu Asp Ile Lys Ser Lys Val Leu Ile Asn Val Glu	
20 25 30	
tta cca ttt aaa aat tta aat tat gat ttg cct acg tta ttt aat aga	144
Leu Pro Phe Lys Asn Leu Asn Tyr Asp Leu Pro Thr Leu Phe Asn Arg	
35 40 45	
gaa gaa gtt ata tat aca aag ata agt aaa tca gga cat gaa gat gtc	192
Glu Glu Val Ile Tyr Thr Lys Ile Ser Lys Ser Gly His Glu Asp Val	
50 55 60	
ata atg aaa ata aca tac gaa ggt aaa gaa gat aat aaa aaa agt tat	240
Ile Met Lys Ile Thr Tyr Glu Gly Lys Glu Asp Asn Lys Lys Ser Tyr	
65 70 75 80	
tta tat tcc agt tta gat aat aaa gga ttt tat aca tat atc tct att	288
Leu Tyr Ser Ser Leu Asp Asn Lys Gly Phe Tyr Thr Tyr Ile Ser Ile	
85 90 95	
tct att tct ata tat aga aaa ata aca tca tta aat aat aaa ata gaa	336
Ser Ile Ser Ile Tyr Arg Lys Ile Thr Ser Leu Asn Asn Lys Ile Glu	
100 105 110	
tat aaa ata ata tct aat aaa aca tat tcg cat aca gaa ata aga ata	384
Tyr Lys Ile Ile Ser Asn Lys Thr Tyr Ser His Thr Glu Ile Arg Ile	
115 120 125	
cct cag tat ata gct cac ggt gga aat aca tca gaa aat gat aat tct	432
Pro Gln Tyr Ile Ala His Gly Gly Asn Thr Ser Glu Asn Asp Asn Ser	
130 135 140	
ata aca caa tca aat aat cct ggt gga ttt ttt aat gtt tca aaa agt	480
Ile Thr Gln Ser Asn Asn Pro Gly Gly Phe Phe Asn Val Ser Lys Ser	
145 150 155 160	
tta aaa aaa atg gta act act aga ata gaa caa aca tat att tat cca	528
Leu Lys Lys Met Val Thr Thr Arg Ile Glu Gln Thr Tyr Ile Tyr Pro	
165 170 175	
aaa cgt aaa aaa act caa aaa gca tat act tat cat ctg gca ttc att	576
Lys Arg Lys Lys Thr Gln Lys Ala Tyr Thr Tyr His Leu Ala Phe Ile	
180 185 190	
agt aaa aaa cca tca ttt atg atg ata aat gaa aaa tta aac ccg cca	624
Ser Lys Lys Pro Ser Phe Met Met Ile Asn Glu Lys Leu Asn Pro Pro	
195 200 205	
cag ttt tta act tta gat ata gat ttt aat cca gat aaa ata aaa tgt	672
Gln Phe Leu Thr Leu Asp Ile Asp Phe Asn Pro Asp Lys Ile Lys Cys	
210 215 220	
gta ata gat tct aaa aaa aca ttc tta caa att gat atc ata gca tta	720
Val Ile Asp Ser Lys Lys Thr Phe Leu Gln Ile Asp Ile Ile Ala Leu	
225 230 235 240	
ata ata gca tta tct aat gat aac att gat gtt gtt tat aaa aaa ata	768

Ile Ile Ala Leu Ser Asn Asp Asn Ile Asp Val Val Tyr Lys Lys Ile	
245 250 255	
agt tct ggt ttt agt gat gat ata tct gat tca atc aaa ata tta ata	816
Ser Ser Gly Phe Ser Asp Asp Ile Ser Asp Ser Ile Lys Ile Leu Ile	
260 265 270	
gaa aat act aaa aat att tta tct gaa tat aat aat gat gcc aga caa	864
Glu Asn Thr Lys Asn Ile Leu Ser Glu Tyr Asn Asn Asp Ala Arg Gln	
275 280 285	
tat gtc gac aaa ata atc gaa att aat tat att aaa aaa tat cca aaa	912
Tyr Val Asp Lys Ile Ile Glu Ile Asn Tyr Ile Lys Lys Tyr Pro Lys	
290 295 300	
aat gaa ata act tta caa gat tat ttt aat aat att ttc aat gat ttt	960
Asn Glu Ile Thr Leu Gln Asp Tyr Phe Asn Asn Ile Phe Asn Asp Phe	
305 310 315 320	
ctt cct cat ata ggc cga gga aaa tat aat gaa aaa tgt atg tat atg	1008
Leu Pro His Ile Gly Arg Gly Lys Tyr Asn Glu Lys Cys Met Tyr Met	
325 330 335	
att agt att tta aga caa tct ttt gtt tct ata ttt caa tca gat gtt	1056
Ile Ser Ile Leu Arg Gln Ser Phe Val Ser Ile Phe Gln Ser Asp Val	
340 345 350	
tat cca gat aaa gat aat tta gct act aga aga att tca act gct gct	1104
Tyr Pro Asp Lys Asp Asn Leu Ala Thr Arg Arg Ile Ser Thr Ala Ala	
355 360 365	
gat att ttt gag aat ata ata agg act tct att gat aat tct ttc gaa	1152
Asp Ile Phe Glu Asn Ile Ile Arg Thr Ser Ile Asp Asn Ser Phe Glu	
370 375 380	
tta gca aga gat aaa tat aaa aca tat att agt gga tct ggt aag aac	1200
Leu Ala Arg Asp Lys Tyr Lys Thr Tyr Ile Ser Gly Ser Gly Lys Asn	
385 390 395 400	
aat aat ata aat aat att tta tct caa gtt aaa tta tta cca caa ata	1248
Asn Asn Ile Asn Asn Ile Leu Ser Gln Val Lys Leu Leu Pro Gln Ile	
405 410 415	
aca caa gcg ttt aat aat ttt ttc aat atg caa gat act aaa aat agt	1296
Thr Gln Ala Phe Asn Asn Phe Phe Asn Met Gln Asp Thr Lys Asn Ser	
420 425 430	
gat gtt gta aaa ata gga acc cac tca aat tgg gct gaa tct att tat	1344
Asp Val Val Lys Ile Gly Thr His Ser Asn Trp Ala Glu Ser Ile Tyr	
435 440 445	
att tct aat gct gta gaa aga ggt gtt agt ata gaa tta aca aaa tca	1392
Ile Ser Asn Ala Val Glu Arg Gly Val Ser Ile Glu Leu Thr Lys Ser	
450 455 460	
cta act caa aga aaa tta cac gca tca tca att aat gta tta gat atg	1440
Leu Thr Gln Arg Lys Leu His Ala Ser Ser Ile Asn Val Leu Asp Met	

465	470	475	480	
atg gat aca cct gat cat ggt aca aaa act ggt ctt gta aaa aga tta				1488
Met Asp Thr Pro Asp His Gly Thr Lys Thr Gly Leu Val Lys Arg Leu	485	490	495	
tgt ata agt aca tta ata tca cac tat cct ata cat att aga aaa caa				1536
Cys Ile Ser Thr Leu Ile Ser His Tyr Pro Ile His Ile Arg Lys Gln	500	505	510	
tta ttt gaa gaa gtt aga gaa ttt ata gaa aac aag gtt aaa cat aca				1584
Leu Phe Glu Glu Val Arg Glu Phe Ile Glu Asn Lys Val Lys His Thr	515	520	525	
tta aaa gaa gat att att tcc ggt gta ttt ata tca att ata gat gaa				1632
Leu Lys Glu Asp Ile Ile Ser Gly Val Phe Ile Ser Ile Ile Asp Glu	530	535	540	
tct gaa cac gta ata gct cgt ata aaa aat tca gaa act gaa tct ttt				1680
Ser Glu His Val Ile Ala Arg Ile Lys Asn Ser Glu Thr Glu Ser Phe	545	550	555	560
ata aaa gat tta aaa tat gca aaa ata tca gga tta ttt gtt aaa aat				1728
Ile Lys Asp Leu Lys Tyr Ala Lys Ile Ser Gly Leu Phe Val Lys Asn	565	570	575	
gat ata ggt ata gaa ata tta aaa ttt cat gaa tta gat aat aac aaa				1776
Asp Ile Gly Ile Glu Ile Leu Lys Phe His Glu Leu Asp Asn Asn Lys	580	585	590	
caa ata tat gta cca aca gat aga tat ttt caa ata aga ata aat gtt				1824
Gln Ile Tyr Val Pro Thr Asp Arg Tyr Phe Gln Ile Arg Ile Asn Val	595	600	605	
ggt aat aaa aga gca aca caa cca gta ttt aga gta gaa aat ggc gaa				1872
Gly Asn Lys Arg Ala Thr Gln Pro Val Phe Arg Val Glu Asn Gly Glu	610	615	620	
tta gca ttt aat aaa tat cct aat tta cat gct gaa tta aaa gag agt				1920
Leu Ala Phe Asn Lys Tyr Pro Asn Leu His Ala Glu Leu Lys Glu Ser	625	630	635	640
aat tct tac act gat ttt gta act aaa tat tat gat att ata gaa gtt				1968
Asn Ser Tyr Thr Asp Phe Val Thr Lys Tyr Tyr Asp Ile Ile Glu Val	645	650	655	
att gac gta gga caa atg ata tat tca aat atg tgt aac aca gtt aca				2016
Ile Asp Val Gly Gln Met Ile Tyr Ser Asn Met Cys Asn Thr Val Thr	660	665	670	
gaa ttt aat agt tac agt tta gaa caa aga aaa aaa tat gat tat gtt				2064
Glu Phe Asn Ser Tyr Ser Leu Glu Gln Arg Lys Lys Tyr Asp Tyr Val	675	680	685	
aga tta cca aat tat tta tat ttt agt tat tta aca tcg act ggt tgt				2112
Arg Leu Pro Asn Tyr Leu Tyr Phe Ser Tyr Leu Thr Ser Thr Gly Cys	690	695	700	

atg tat gat att ggt aaa atg acg ggt gtt aga ggt aca ttt gga aca	2160
Met Tyr Asp Ile Gly Lys Met Thr Gly Val Arg Gly Thr Phe Gly Thr	
705 710 715 720	
gcc caa agt aaa cat att ata aca gga cct cca gat aat gta atg aat	2208
Ala Gln Ser Lys His Ile Ile Thr Gly Pro Pro Asp Asn Val Met Asn	
725 730 735	
aaa tat gat aca tgt aac tat tta gca tat cct ata gaa aga cca tca	2256
Lys Tyr Asp Thr Cys Asn Tyr Leu Ala Tyr Pro Ile Glu Arg Pro Ser	
740 745 750	
ata act aat att cct atg gaa ata tct ggt ata gca aga aat agt ata	2304
Ile Thr Asn Ile Pro Met Glu Ile Ser Gly Ile Ala Arg Asn Ser Ile	
755 760 765	
ggg aca cat gtt tta gtg gga ttc ttt agt ttt aat tac aac gta gaa	2352
Gly Thr His Val Leu Val Gly Phe Phe Ser Phe Asn Tyr Asn Val Glu	
770 775 780	
gat ggc gtt att gta aat aaa gaa tcg ata aat aga gga tta tta tct	2400
Asp Gly Val Ile Val Asn Lys Glu Ser Ile Asn Arg Gly Leu Leu Ser	
785 790 795 800	
gta ata tca tta atg tct gta aaa aat gaa tta tct gat aca caa ata	2448
Val Ile Ser Leu Met Ser Val Lys Asn Glu Leu Ser Asp Thr Gln Ile	
805 810 815	
aac aat aat aat cca agt gca gaa aat tct aat aat aat tat tct aaa	2496
Asn Asn Asn Asn Pro Ser Ala Glu Asn Ser Asn Asn Asn Tyr Ser Lys	
820 825 830	
ata tca gca aca ggt ttg cca tca ata gga act gtt tta gta caa ggt	2544
Ile Ser Ala Thr Gly Leu Pro Ser Ile Gly Thr Val Leu Val Gln Gly	
835 840 845	
gat gcg tta tac aga tgt tta aaa cca aaa ttt aaa aat gat gat gat	2592
Asp Ala Leu Tyr Arg Cys Leu Lys Pro Lys Phe Lys Asn Asp Asp Asp	
850 855 860	
aat aga tat ata ttt gat caa tct gaa aca cta tct aat act tat cca	2640
Asn Arg Tyr Ile Phe Asp Gln Ser Glu Thr Leu Ser Asn Thr Tyr Pro	
865 870 875 880	
gcc gtg gta gaa aga aca aga aaa caa ggt aca gat tta ata aag att	2688
Ala Val Val Glu Arg Thr Arg Lys Gln Gly Thr Asp Leu Ile Lys Ile	
885 890 895	
gat atg cta ttg tca tca tat aga aga ttg agt gta gga gat aaa ata	2736
Asp Met Leu Leu Ser Ser Tyr Arg Arg Leu Ser Val Gly Asp Lys Ile	
900 905 910	
gca aaa tct gta caa aaa gtt act gtt tca aaa att atg gaa gaa gaa	2784
Ala Lys Ser Val Gln Lys Val Thr Val Ser Lys Ile Met Glu Glu Glu	
915 920 925	

gat atg cct tat aat gaa aat ggc gaa aga cct gat ata ata ttt aat	2832
Asp Met Pro Tyr Asn Glu Asn Gly Glu Arg Pro Asp Ile Ile Phe Asn	
930 935 940	
agt cct agt att ata agt aga aaa act ctt cct ttg tat gac gaa gtt	2880
Ser Pro Ser Ile Ile Ser Arg Lys Thr Leu Pro Leu Tyr Asp Glu Val	
945 950 955 960	
tct tta tgt aat atg ttc tca aaa ata cca tat aat gat aaa tgt gat	2928
Ser Leu Cys Asn Met Phe Ser Lys Ile Pro Tyr Asn Asp Lys Cys Asp	
965 970 975	
gta gaa tat att aat tat cct ata tat act gat aaa agt cct ttg gat	2976
Val Glu Tyr Ile Asn Tyr Pro Ile Tyr Thr Asp Lys Ser Pro Leu Asp	
980 985 990	
aaa tat aat ttt atc aaa aaa gaa tta aaa aaa ata tat aat aat gta	3024
Lys Tyr Asn Phe Ile Lys Lys Glu Leu Lys Lys Ile Tyr Asn Asn Val	
995 1000 1005	
act gac gaa gaa tta gaa aat att ata tat tgt cga caa aca tta	3069
Thr Asp Glu Glu Leu Glu Asn Ile Ile Tyr Cys Arg Gln Thr Leu	
1010 1015 1020	
tat cac cca tat aca aaa aaa cct atg act ata aaa gaa ggt gat	3114
Tyr His Pro Tyr Thr Lys Lys Pro Met Thr Ile Lys Glu Gly Asp	
1025 1030 1035	
aaa gaa act aaa tca ttt atg gga cct atg tta ttc tgt aga tta	3159
Lys Glu Thr Lys Ser Phe Met Gly Pro Met Leu Phe Cys Arg Leu	
1040 1045 1050	
tca caa atg tcg gca gat aaa ata tca gta aga aat aga ggc aga	3204
Ser Gln Met Ser Ala Asp Lys Ile Ser Val Arg Asn Arg Gly Arg	
1055 1060 1065	
tta gat aaa tac atg cag gct ccg tct ggg aaa aaa aaa ggc gga	3249
Leu Asp Lys Tyr Met Gln Ala Pro Ser Gly Lys Lys Lys Gly Gly	
1070 1075 1080	
ggg att aaa atc gga gaa atg gaa agt gat gtt ttt gct aca aat	3294
Gly Ile Lys Ile Gly Glu Met Glu Ser Asp Val Phe Ala Thr Asn	
1085 1090 1095	
gga tct gta tat gca ata cat gaa tta caa tca gat cct gat gaa	3339
Gly Ser Val Tyr Ala Ile His Glu Leu Gln Ser Asp Pro Asp Glu	
1100 1105 1110	
ttt tat tta cca gct cat ata tgt gga aat tgt gga ata ttt gct	3384
Phe Tyr Leu Pro Ala His Ile Cys Gly Asn Cys Gly Ile Phe Ala	
1115 1120 1125	
act tat gaa gaa aat ata gaa gta aaa aga tgg aaa tgt cta cag	3429
Thr Tyr Glu Glu Asn Ile Glu Val Lys Arg Trp Lys Cys Leu Gln	
1130 1135 1140	
tgt gaa aat ctt ggt ttg tca cca gaa ata ata aaa atg cgt tta	3474

Cys	Glu	Asn	Leu	Gly	Leu	Ser	Pro	Glu	Ile	Ile	Lys	Met	Arg	Leu	
1145						1150					1155				
act	tat	gct	aca	aaa	ata	ttt	atc	aca	ctt	tta	aat	gct	aga	ggt	3519
Thr	Tyr	Ala	Thr	Lys	Ile	Phe	Ile	Thr	Leu	Leu	Asn	Ala	Arg	Gly	
1160						1165					1170				
ata	tct	cta	atc	cct	gta	aaa	gat	aat	cag	tct	ata	cgt	tat	att	3564
Ile	Ser	Leu	Ile	Pro	Val	Lys	Asp	Asn	Gln	Ser	Ile	Arg	Tyr	Ile	
1175						1180					1185				
tct	gac	gat	aat	act	att	aat	act	taa							3591
Ser	Asp	Asp	Asn	Thr	Ile	Asn	Thr								
1190						1195									

<210> 36

<211> 498

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(498)

<223>

<400>	36															
atg	aat	ata	tca	aat	ata	aat	aat	gat	ata	tat	ctt	ggt	ggt	ttg	gga	48
Met	Asn	Ile	Ser	Asn	Ile	Asn	Asn	Asp	Ile	Tyr	Leu	Gly	Gly	Leu	Gly	
1				5				10						15		
aat	cat	agc	aca	gaa	gaa	ata	aaa	aat	ttt	cta	att	gat	aat	aat	att	96
Asn	His	Ser	Thr	Glu	Glu	Ile	Lys	Asn	Phe	Leu	Ile	Asp	Asn	Asn	Ile	
			20				25						30			
aaa	tgt	ata	ata	aca	ata	tgg	aat	ttt	aat	aaa	tta	aat	ata	aaa	aaa	144
Lys	Cys	Ile	Ile	Thr	Ile	Trp	Asn	Phe	Asn	Lys	Leu	Asn	Ile	Lys	Lys	
		35					40					45				
tta	aat	att	aat	gtt	aaa	gat	tat	atg	tat	ata	cac	gca	tat	gat	cta	192
Leu	Asn	Ile	Asn	Val	Lys	Asp	Tyr	Met	Tyr	Ile	His	Ala	Tyr	Asp	Leu	
	50					55					60					
aca	aat	gaa	ata	att	att	gat	tat	ttt	gat	att	act	aac	aaa	ttt	ata	240
Thr	Asn	Glu	Ile	Ile	Ile	Asp	Tyr	Phe	Asp	Ile	Thr	Asn	Lys	Phe	Ile	
65					70				75					80		

att aat aaa ata aaa gaa ggt aag aaa gta tta att cat tgt tat gct 288
 Ile Asn Lys Ile Lys Glu Gly Lys Lys Val Leu Ile His Cys Tyr Ala
 85 90 95

ggt ata tca aga tct gca agt ata gtt att aat tat ttt atg aat aaa 336
 Gly Ile Ser Arg Ser Ala Ser Ile Val Ile Asn Tyr Phe Met Asn Lys
 100 105 110

tat aat ata aat tat gac gaa gct gaa aaa ata gtt agt aaa aaa cga 384
 Tyr Asn Ile Asn Tyr Asp Glu Ala Glu Lys Ile Val Ser Lys Lys Arg
 115 120 125

aat ata aaa cca aat ata ttt ttt ata ctt caa tta aaa ttt tat aat 432
 Asn Ile Lys Pro Asn Ile Phe Phe Ile Leu Gln Leu Lys Phe Tyr Asn
 130 135 140

tca tat aaa aat ata aat att att tat tta att ata tta ttt gct att 480
 Ser Tyr Lys Asn Ile Asn Ile Ile Tyr Leu Ile Ile Leu Phe Ala Ile
 145 150 155 160

aga tat aca cta aaa tga 498
 Arg Tyr Thr Leu Lys
 165

<210> 37

<211> 210

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (210)

<223>

<400> 37

atg agt gaa aat tta tat tat gta cca gac ata tgt aaa aat tgc aat 48
 Met Ser Glu Asn Leu Tyr Tyr Val Pro Asp Ile Cys Lys Asn Cys Asn
 1 5 10 15

aag tta aat cct aat aat ata ttg gtg ata gac ggt aca tat aga gct 96
 Lys Leu Asn Pro Asn Asn Ile Leu Val Ile Asp Gly Thr Tyr Arg Ala
 20 25 30

gcc tat aat gat tat tat tct gtt agt aat aaa ttg cca tct att aaa 144
 Ala Tyr Asn Asp Tyr Tyr Ser Val Ser Asn Lys Leu Pro Ser Ile Lys
 35 40 45

aca gaa aaa ggt gga tta gca aaa tat cca aaa aaa tta ttt att aga 192
 Thr Glu Lys Gly Gly Leu Ala Lys Tyr Pro Lys Lys Leu Phe Ile Arg
 50 55 60

aat ggt tat tat aag taa 210
 Asn Gly Tyr Tyr Lys
 65

<210> 38

<211> 2163

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2163)

<223>

<400> 38
 atg caa gaa att aaa aat att tat gat ttt aaa aca tat aat tta ttt 48
 Met Gln Glu Ile Lys Asn Ile Tyr Asp Phe Lys Thr Tyr Asn Leu Phe
 1 5 10 15

ccc gaa tta cat aat aaa tat aac tat att tca cat tta tta ttt cct 96
 Pro Glu Leu His Asn Lys Tyr Asn Tyr Ile Ser His Leu Leu Phe Pro
 20 25 30

aat aat act aat ata ttt caa tca tat att gat ttt gat tat gta aaa 144
 Asn Asn Thr Asn Ile Phe Gln Ser Tyr Ile Asp Phe Asp Tyr Val Lys
 35 40 45

aaa tat aaa tat aat ttt tta ata tta tta tac cct gtt tac aaa cta 192
 Lys Tyr Lys Tyr Asn Phe Leu Ile Leu Leu Tyr Pro Val Tyr Lys Leu
 50 55 60

tat tgg aaa aat atg tat att tgt tat aat caa aat agt aat aaa ata 240
 Tyr Trp Lys Asn Met Tyr Ile Cys Tyr Asn Gln Asn Ser Asn Lys Ile
 65 70 75 80

tat tta gat aat aaa gaa ata tat aat acc agt att gaa tta att aat 288
 Tyr Leu Asp Asn Lys Glu Ile Tyr Asn Thr Ser Ile Glu Leu Ile Asn
 85 90 95

gat ttt tta ata gat gga ata gat ata aat aat aat att ata act att 336
 Asp Phe Leu Ile Asp Gly Ile Asp Ile Asn Asn Asn Ile Ile Thr Ile

100	105	110	
aga tca aac gga tct aca att act tat tct gca tac gca tat gca aca			384
Arg Ser Asn Gly Ser Thr Ile Thr Tyr Ser Ala Tyr Ala Tyr Ala Thr			
115	120	125	
ata tta tat gat tta cca tat aga tta gga aat tta gat att aat caa			432
Ile Leu Tyr Asp Leu Pro Tyr Arg Leu Gly Asn Leu Asp Ile Asn Gln			
130	135	140	
ata ttt gga att gta gaa agt tct aat ata tta gga ata tta tct aca			480
Ile Phe Gly Ile Val Glu Ser Ser Asn Ile Leu Gly Ile Leu Ser Thr			
145	150	155	160
aat gaa gaa caa aaa aaa aag ttt cct aaa tat att aat aat ata gaa			528
Asn Glu Glu Gln Lys Lys Lys Phe Pro Lys Tyr Ile Asn Asn Ile Glu			
165	170	175	
tta gaa aaa aat ata tta ttt aaa ttt aag gaa tct aac ctt aga tca			576
Leu Glu Lys Asn Ile Leu Phe Lys Phe Lys Glu Ser Asn Leu Arg Ser			
180	185	190	
ata caa att gat gta caa tta aaa ata ttt gat tta ttt ata aat aga			624
Ile Gln Ile Asp Val Gln Leu Lys Ile Phe Asp Leu Phe Ile Asn Arg			
195	200	205	
tta aat tgt gtt gtt tct ggt gga act ggt ata gga aaa aca tct att			672
Leu Asn Cys Val Val Ser Gly Gly Thr Gly Ile Gly Lys Thr Ser Ile			
210	215	220	
ata cct aaa ata ata tgg tgg tat aat ctt ctt ttt gat gga tat aat			720
Ile Pro Lys Ile Ile Trp Trp Tyr Asn Leu Leu Phe Asp Gly Tyr Asn			
225	230	235	240
atg ttt aat agt aga att tct aat gta tct ata gat aat ttt ata ttt			768
Met Phe Asn Ser Arg Ile Ser Asn Val Ser Ile Asp Asn Phe Ile Phe			
245	250	255	
gat ata aat ata att gaa aaa aat aca tta tta tca tta cct aga aaa			816
Asp Ile Asn Ile Ile Glu Lys Asn Thr Leu Leu Ser Leu Pro Arg Lys			
260	265	270	
act ata ata aat agt act gct att aat tat ata aaa tca cta ggt tat			864
Thr Ile Ile Asn Ser Thr Ala Ile Asn Tyr Ile Lys Ser Leu Gly Tyr			
275	280	285	
tct gaa ata aca gaa act ccc ata ata ata aaa tat aaa gat ata aaa			912
Ser Glu Ile Thr Glu Thr Pro Ile Ile Ile Lys Tyr Lys Asp Ile Lys			
290	295	300	
tta tat aaa gaa tat tat aat aat aaa att att ttt cca act aat tta			960
Leu Tyr Lys Glu Tyr Tyr Asn Asn Lys Ile Ile Phe Pro Thr Asn Leu			
305	310	315	320
tta ttg tgt gtt aac aga ttg tca ata aat aat tta aaa aat tcc agt			1008
Leu Leu Cys Val Asn Arg Leu Ser Ile Asn Asn Leu Lys Asn Ser Ser			
325	330	335	

gtt ata att ata gat gaa ata cac gaa cat gat aga tat gct gac ata	1056
Val Ile Ile Ile Asp Glu Ile His Glu His Asp Arg Tyr Ala Asp Ile	
340 345 350	
tgt ata gca gta tca tat ttt tta aaa aaa gtt ata aat atc aga aat	1104
Cys Ile Ala Val Ser Tyr Phe Leu Lys Lys Val Ile Asn Ile Arg Asn	
355 360 365	
ata ata tta ata tct gca aca ata gaa ttt gaa ata gat aat ata tta	1152
Ile Ile Leu Ile Ser Ala Thr Ile Glu Phe Glu Ile Asp Asn Ile Leu	
370 375 380	
aga ttt ttt aat aat aaa ata gta caa gta tat ata cct gga ttt aca	1200
Arg Phe Phe Asn Asn Lys Ile Val Gln Val Tyr Ile Pro Gly Phe Thr	
385 390 395 400	
tta ttt cct gtt aca gaa ata gaa aat acg gtt gat agt ata gat aaa	1248
Leu Phe Pro Val Thr Glu Ile Glu Asn Thr Val Asp Ser Ile Asp Lys	
405 410 415	
ata tta tta gat aat aaa cca cct gtt gga tat tct gtt ata ata ttt	1296
Ile Leu Leu Asp Asn Lys Pro Pro Val Gly Tyr Ser Val Ile Ile Phe	
420 425 430	
tat gaa tca ata cca aaa tta act ttt att aaa aaa tta gaa gaa	1344
Tyr Glu Ser Ile Pro Lys Leu Thr Phe Ile Lys Lys Lys Leu Glu Glu	
435 440 445	
agt ata aaa gat cct ata tat aaa ttt tat tct ata cac gga aaa aca	1392
Ser Ile Lys Asp Pro Ile Tyr Lys Phe Tyr Ser Ile His Gly Lys Thr	
450 455 460	
gat aat gct aat gaa gtt att cgt tat ata gaa aat aat aaa aaa cat	1440
Asp Asn Ala Asn Glu Val Ile Arg Tyr Ile Glu Asn Asn Lys Lys His	
465 470 475 480	
att cat gtc ata ata agt aca aat tat tta gaa tca tct ata act ata	1488
Ile His Val Ile Ile Ser Thr Asn Tyr Leu Glu Ser Ser Ile Thr Ile	
485 490 495	
tcg aat gct aaa tta gta ata gat aat gga aaa gta tat aga aaa gaa	1536
Ser Asn Ala Lys Leu Val Ile Asp Asn Gly Lys Val Tyr Arg Lys Glu	
500 505 510	
ttt ata gat gga aat ata aca tat ata aca aat agt atg tat aaa caa	1584
Phe Ile Asp Gly Asn Ile Thr Tyr Ile Thr Asn Ser Met Tyr Lys Gln	
515 520 525	
aga aaa ggt aga gta gga aga gtg tca aaa gga aca tat ata aga aca	1632
Arg Lys Gly Arg Val Gly Arg Val Ser Lys Gly Thr Tyr Ile Arg Thr	
530 535 540	
tac aca tta gat aaa tta aat act aat ttt aaa aat ata aat tat caa	1680
Tyr Thr Leu Asp Lys Leu Asn Thr Asn Phe Lys Asn Ile Asn Tyr Gln	
545 550 555 560	

tat tta tgg gat tac ata ata att ttt aaa tat tat ggt tta gat ata	1728
Tyr Leu Trp Asp Tyr Ile Ile Ile Phe Lys Tyr Tyr Gly Leu Asp Ile	
565 570 575	
aaa aaa gat tat ttt gta att cct gat aat att aat aga gta gat aaa	1776
Lys Lys Asp Tyr Phe Val Ile Pro Asp Asn Ile Asn Arg Val Asp Lys	
580 585 590	
act gtt aat tat atg aag tct ata gga ata gat ata gat aaa tgt ata	1824
Thr Val Asn Tyr Met Lys Ser Ile Gly Ile Asp Ile Asp Lys Cys Ile	
595 600 605	
aat aaa ata tat aga att ttt aat aaa tat gaa att aat atg tta gaa	1872
Asn Lys Ile Tyr Arg Ile Phe Asn Lys Tyr Glu Ile Asn Met Leu Glu	
610 615 620	
tat ttt att ata tat ttg tat ggt tca gaa act gag aaa tta tta ttg	1920
Tyr Phe Ile Ile Tyr Leu Tyr Gly Ser Glu Thr Glu Lys Leu Leu Leu	
625 630 635 640	
agc aca gat gat aaa aat ata att gat ata cct tat aaa ata tat aat	1968
Ser Thr Asp Asp Lys Asn Ile Ile Asp Ile Pro Tyr Lys Ile Tyr Asn	
645 650 655	
ata tat gta aaa atg aat gta aaa ata aaa ttg gaa tct aaa aga agt	2016
Ile Tyr Val Lys Met Asn Val Lys Ile Lys Leu Glu Ser Lys Arg Ser	
660 665 670	
att ata tat ata ttt aaa ttt att aat gat gta tat gat ggt ccg caa	2064
Ile Ile Tyr Ile Phe Lys Phe Ile Asn Asp Val Tyr Asp Gly Pro Gln	
675 680 685	
aaa ttt aaa tat att aat aca gac gaa aat gta tat ttt gat aaa aat	2112
Lys Phe Lys Tyr Ile Asn Thr Asp Glu Asn Val Tyr Phe Asp Lys Asn	
690 695 700	
aaa ata tat tat tta aaa tct gaa aat cca ctg att att atg aga gat	2160
Lys Ile Tyr Tyr Leu Lys Ser Glu Asn Pro Leu Ile Ile Met Arg Asp	
705 710 715 720	
taa	2163

<210> 39

<211> 813

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(813)

<223>

<400> 39

atg tat ata caa ata cca gaa tat aaa aag tca tat atg tgt aaa agt	48
Met Tyr Ile Gln Ile Pro Glu Tyr Lys Lys Ser Tyr Met Cys Lys Ser	
1 5 10 15	
tta ata aac tct gga aca tac gga att gta tat aaa tat gca gat att	96
Leu Ile Asn Ser Gly Thr Tyr Gly Ile Val Tyr Lys Tyr Ala Asp Ile	
20 25 30	
tat aca aaa aat aat gtt gcg att aaa ttt ttt aga aat aat gat aat	144
Tyr Thr Lys Asn Asn Val Ala Ile Lys Phe Phe Arg Asn Asn Asp Asn	
35 40 45	
ttt aca cac gaa ata aat att tta aat tat att aaa aaa aaa ata tat	192
Phe Thr His Glu Ile Asn Ile Leu Asn Tyr Ile Lys Lys Lys Ile Tyr	
50 55 60	
aat aat tct gat agt gat gaa ata aac gaa gtt aaa aaa aat atc tgt	240
Asn Asn Ser Asp Ser Asp Glu Ile Asn Glu Val Lys Lys Asn Ile Cys	
65 70 75 80	
ttt ccg ata ttt ttt aca aat gaa aat aat gtt tca aaa tat att ata	288
Phe Pro Ile Phe Phe Thr Asn Glu Asn Asn Val Ser Lys Tyr Ile Ile	
85 90 95	
ttt aat tat tat gat tat gat tta tta tat tac gca tct aca tat ata	336
Phe Asn Tyr Tyr Asp Tyr Asp Leu Leu Tyr Tyr Ala Ser Thr Tyr Ile	
100 105 110	
tta ctt aat caa gat ata tta aat ata agt tta caa ata tgc aat gga	384
Leu Leu Asn Gln Asp Ile Leu Asn Ile Ser Leu Gln Ile Cys Asn Gly	
115 120 125	
ctg aaa tat tta cat aaa aat tct att gtt cat tgt gat tta aaa cca	432
Leu Lys Tyr Leu His Lys Asn Ser Ile Val His Cys Asp Leu Lys Pro	
130 135 140	
gag aat ata tta tgt aaa tat aaa aat gat aca ttg cat ctt gtt ata	480
Glu Asn Ile Leu Cys Lys Tyr Lys Asn Asp Thr Leu His Leu Val Ile	
145 150 155 160	
aca gat ttt gga tta tcg tat ata gaa aat aat att att gat tat gaa	528
Thr Asp Phe Gly Leu Ser Tyr Ile Glu Asn Asn Ile Ile Asp Tyr Glu	
165 170 175	
atc gta aca ttt agt tat aga tct cct gaa tta ata tgt act att aat	576
Ile Val Thr Phe Ser Tyr Arg Ser Pro Glu Leu Ile Cys Thr Ile Asn	
180 185 190	
aat aaa aac aat ata att gta aag tct tct ata gat atg tgg tct ttt	624
Asn Lys Asn Asn Ile Ile Val Lys Ser Ser Ile Asp Met Trp Ser Phe	

195	200	205	
ggg gta att ata tat ttt tta att aat aaa ttt tat ttt gat att tat			672
Gly Val Ile Ile Tyr Phe	Leu Ile Asn Lys Phe	Tyr Phe Asp Ile Tyr	
210	215	220	
aat att gaa aaa tat ata gaa tct aat cct ata aaa aaa tta tgt aac			720
Asn Ile Glu Lys Tyr Ile	Glu Ser Asn Pro Ile	Lys Lys Leu Cys Asn	
225	230	235 240	
att aac tcg att gtt gat aga ctg cta caa tat gaa aaa gat aga tat			768
Ile Asn Ser Ile Val Asp Arg	Leu Leu Gln Tyr Glu	Lys Asp Arg Tyr	
245	250	255	
aca agt tat caa ata tat aat gat ctg aaa aaa tta ttg aaa taa			813
Thr Ser Tyr Gln Ile Tyr Asn Asp	Leu Lys Lys Leu Leu Lys		
260	265	270	

<210> 40

<211> 2181

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(2181)

<223>

<400> 40

atg tca gac gaa tat ata tat tta cag aaa tct tta aat gtt act aaa	48
Met Ser Asp Glu Tyr Ile Tyr Leu Gln Lys Ser Leu Asn Val Thr Lys	
1 5 10 15	

gaa tct aaa ata gat tta ata tta aat gat aaa act agt aaa gat tta	96
Glu Ser Lys Ile Asp Leu Ile Leu Asn Asp Lys Thr Ser Lys Asp Leu	
20 25 30	

gtt aaa ata agt ata tcc aaa ata tgt aga agt att tta aaa tat aaa	144
Val Lys Ile Ser Ile Ser Lys Ile Cys Arg Ser Ile Leu Lys Tyr Lys	
35 40 45	

gat agc aat caa cct att tct gaa tat cat gaa ttt ata ctt gat gat	192
Asp Ser Asn Gln Pro Ile Ser Glu Tyr His Glu Phe Ile Leu Asp Asp	
50 55 60	

att act gat tat ttt aaa tta ttt ttt gat ata gat tgt aaa aca gaa	240
---	-----

Ile Thr Asp Tyr Phe Lys Leu Phe Phe Asp Ile Asp Cys Lys Thr Glu	
65 70 75 80	
tat gaa atc gat gat gtt aaa aaa tat att aaa gaa ttt aaa aaa ttt	288
Tyr Glu Ile Asp Asp Val Lys Lys Tyr Ile Lys Glu Phe Lys Lys Phe	
85 90 95	
ata tca tat gaa ttg tat aat ata ttt tct aat aat ttt gat ata gag	336
Ile Ser Tyr Glu Leu Tyr Asn Ile Phe Ser Asn Asn Phe Asp Ile Glu	
100 105 110	
aat cat aac atc gat aat ata aaa aaa ttt ata ttt aat aat att tac	384
Asn His Asn Ile Asp Asn Ile Lys Lys Phe Ile Phe Asn Asn Ile Tyr	
115 120 125	
tat aca tta tct gat aat ccg cac aaa tta tct tta cat ata ttt ttt	432
Tyr Thr Leu Ser Asp Asn Pro His Lys Leu Ser Leu His Ile Phe Phe	
130 135 140	
aat caa ata tta gta agt cct aca tca ttt ata caa tta aag aaa tat	480
Asn Gln Ile Leu Val Ser Pro Thr Ser Phe Ile Gln Leu Lys Lys Tyr	
145 150 155 160	
ata ata aat tta aga tca aaa ata aat aat att tta atc aat aat ata	528
Ile Ile Asn Leu Arg Ser Lys Ile Asn Asn Ile Leu Ile Asn Asn Ile	
165 170 175	
gat tta gct cct ttt aga aga aat aca caa tta aga ttt ata tat agt	576
Asp Leu Ala Pro Phe Arg Arg Asn Thr Gln Leu Arg Phe Ile Tyr Ser	
180 185 190	
aag aaa aat gat agt gaa tat ttt cac tca gag cat gat tat aat ata	624
Lys Lys Asn Asp Ser Glu Tyr Phe His Ser Glu His Asp Tyr Asn Ile	
195 200 205	
gaa aat ata gaa gat tta aaa aaa tat ata ata aca tat aaa aat ttt	672
Glu Asn Ile Glu Asp Leu Lys Lys Tyr Ile Ile Thr Tyr Lys Asn Phe	
210 215 220	
aat gaa cca cat att ata ata aaa gca aaa gat aat aat tta aca aat	720
Asn Glu Pro His Ile Ile Ile Lys Ala Lys Asp Asn Asn Leu Thr Asn	
225 230 235 240	
ctt gat gta att tat cct cat att aaa tat ttt aga ggt cct cat ttt	768
Leu Asp Val Ile Tyr Pro His Ile Lys Tyr Phe Arg Gly Pro His Phe	
245 250 255	
att aga aat att tct aaa gaa tta tat aat aat tat aaa att aca att	816
Ile Arg Asn Ile Ser Lys Glu Leu Tyr Asn Asn Tyr Lys Ile Thr Ile	
260 265 270	
tct gat gat tca att cag tta ttt aaa aaa aaa cat agc gct gaa tta	864
Ser Asp Asp Ser Ile Gln Leu Phe Lys Lys Lys His Ser Ala Glu Leu	
275 280 285	
gac gaa att att gat ata aat ttg ata ttt aat act cct gat tgt aaa	912
Asp Glu Ile Ile Asp Ile Asn Leu Ile Phe Asn Thr Pro Asp Cys Lys	

290	295	300	
ata tgt ggt aaa aat tct tta cat aaa aat aat aga att ata aaa ttt			960
Ile Cys Gly Lys Asn Ser Leu His Lys Asn Asn Arg Ile Ile Lys Phe			
305	310	315	320
aca gaa caa aaa ata att tta ttt aag agt gga aat cca aga aat tgt			1008
Thr Glu Gln Lys Ile Ile Leu Phe Lys Ser Gly Asn Pro Arg Asn Cys			
325	330		335
aat aca tta aaa tat gat tat cct acg tta tca gga tat gaa ttg gct			1056
Asn Thr Leu Lys Tyr Asp Tyr Pro Thr Leu Ser Gly Tyr Glu Leu Ala			
340	345		350
aat ttt ata aga gat tta aat att att aaa aag ata gat tct gat gca			1104
Asn Phe Ile Arg Asp Leu Asn Ile Ile Lys Lys Ile Asp Ser Asp Ala			
355	360		365
tat gtt tat tgg aaa aat gga aaa tgg gca atc gtt gat aat cct tat			1152
Tyr Val Tyr Trp Lys Asn Gly Lys Trp Ala Ile Val Asp Asn Pro Tyr			
370	375		380
att ttt caa gga ata agt aat atg ata tta gaa aaa tac aga aac aat			1200
Ile Phe Gln Gly Ile Ser Asn Met Ile Leu Glu Lys Tyr Arg Asn Asn			
385	390	395	400
atg tta ata caa gat ata gat tat att ata aaa aaa ttt ttt gga gaa			1248
Met Leu Ile Gln Asp Ile Asp Tyr Ile Ile Lys Lys Phe Phe Gly Glu			
405	410		415
gca aaa aat aga ata agt gct aac tta tct atg aat aca gat att att			1296
Ala Lys Asn Arg Ile Ser Ala Asn Leu Ser Met Asn Thr Asp Ile Ile			
420	425		430
tgt ttt aat cct tat att ata caa ttt aat aat gga gta tat gat tta			1344
Cys Phe Asn Pro Tyr Ile Ile Gln Phe Asn Asn Gly Val Tyr Asp Leu			
435	440		445
aaa gaa tct aaa ttt tat act ggc gag aat gca aaa aaa tat att cgt			1392
Lys Glu Ser Lys Phe Tyr Thr Gly Glu Asn Ala Lys Lys Tyr Ile Arg			
450	455		460
cta aac tat att aaa att gat tat aaa gat ata gaa gat atg tct gat			1440
Leu Asn Tyr Ile Lys Ile Asp Tyr Lys Asp Ile Glu Asp Met Ser Asp			
465	470	475	480
gaa gaa aaa att aaa ttt gaa aat aat tat aat att ctt tta aaa tta			1488
Glu Glu Lys Ile Lys Phe Glu Asn Asn Tyr Asn Ile Leu Leu Lys Leu			
485	490		495
ttt aat tta gtt att ccc aaa tct aat cct aaa agg ata gtt ttt gaa			1536
Phe Asn Leu Val Ile Pro Lys Ser Asn Pro Lys Arg Ile Val Phe Glu			
500	505		510
act aat tta tcg tct gtg tta cat tat tgt cat aaa agt gtt ata aca			1584
Thr Asn Leu Ser Ser Val Leu His Tyr Cys His Lys Ser Val Ile Thr			
515	520		525

ata tta tat ggt cca act tct gga ggt aaa tct act att aaa tat tta	1632
Ile Leu Tyr Gly Pro Thr Ser Gly Gly Lys Ser Thr Ile Lys Tyr Leu	
530 535 540	
tta aga caa tta ttg ttt gac atg ttt tta gaa cct cct ata gaa ttt	1680
Leu Arg Gln Leu Leu Phe Asp Met Phe Leu Glu Pro Pro Ile Glu Phe	
545 550 555 560	
tat caa aat tat att cca aaa aat tca ccc aac tct tgg tta ggt aaa	1728
Tyr Gln Asn Tyr Ile Pro Lys Asn Ser Pro Asn Ser Trp Leu Gly Lys	
565 570 575	
gta gaa gat aaa tta gtt tct ttt gct tct gaa ggt gat gtt aat cga	1776
Val Glu Asp Lys Leu Val Ser Phe Ala Ser Glu Gly Asp Val Asn Arg	
580 585 590	
aat gaa gta ttt cta aac aaa aat ata aaa caa tat aca gaa caa tat	1824
Asn Glu Val Phe Leu Asn Lys Asn Ile Lys Gln Tyr Thr Glu Gln Tyr	
595 600 605	
att tta ggt aga gat tta aat aaa tct aaa tgt gtt cac aaa aat aca	1872
Ile Leu Gly Arg Asp Leu Asn Lys Ser Lys Cys Val His Lys Asn Thr	
610 615 620	
tta aca caa ttt ata gat tta aat cca aaa cct atg ttt agt tca gta	1920
Leu Thr Gln Phe Ile Asp Leu Asn Pro Lys Pro Met Phe Ser Ser Val	
625 630 635 640	
gat cct gct ttg gtc aaa cgt att gca gtt ata gaa ata aat gag acg	1968
Asp Pro Ala Leu Val Lys Arg Ile Ala Val Ile Glu Ile Asn Glu Thr	
645 650 655	
caa ttc gtc aat gaa aaa tta tca cga gat act gtc aat ata aca tca	2016
Gln Phe Val Asn Glu Lys Leu Ser Arg Asp Thr Val Asn Ile Thr Ser	
660 665 670	
gat aat aga aat ata gta ata gca gat tct acg ttt gac gat aaa att	2064
Asp Asn Arg Asn Ile Val Ile Ala Asp Ser Thr Phe Asp Asp Lys Ile	
675 680 685	
tta aat aat gaa ttt acg cta ccg tta ttt tat att ctg aag aaa tgg	2112
Leu Asn Asn Glu Phe Thr Leu Pro Leu Phe Tyr Ile Leu Lys Lys Trp	
690 695 700	
tct aaa aaa tac cat aaa gat act gtc aaa tta tta tac acc cct gac	2160
Ser Lys Lys Tyr His Lys Asp Thr Val Lys Leu Leu Tyr Thr Pro Asp	
705 710 715 720	
ttt ttt gat aaa caa aat tga	2181
Phe Phe Asp Lys Gln Asn	
725	

<210> 41

<213> Amsacta moorei entomopoxvirus

<223>

<400>	41															
atg	gaa	gaa	tta	tat	tca	tta	ata	aac	tac	gca	tat	tct	aat	gat	att	48
Met	Glu	Glu	Leu	Tyr	Ser	Leu	Ile	Asn	Tyr	Ala	Tyr	Ser	Asn	Asp	Ile	
1				5					10					15		
aaa	aga	aca	ata	gta	aat	ttt	aga	ttt	tcg	att	gat	aat	aaa	ata	tat	96
Lys	Arg	Thr	Ile	Val	Asn	Phe	Arg	Phe	Ser	Ile	Asp	Asn	Lys	Ile	Tyr	
			20					25					30			
aaa	aat	tta	ttt	tct	aat	ttt	cgc	gaa	gat	ata	ata	att	aat	aat	gaa	144
Lys	Asn	Leu	Phe	Ser	Asn	Phe	Arg	Glu	Asp	Ile	Ile	Ile	Asn	Asn	Glu	
		35					40					45				
tat	tct	agt	act	aaa	ctt	aat	aat	att	aaa	aac	ata	gta	gaa	gtt	aga	192
Tyr	Ser	Ser	Thr	Lys	Leu	Asn	Asn	Ile	Lys	Asn	Ile	Val	Glu	Val	Arg	
	50					55					60					
tgt	tgt	tat	aaa	aat	aaa	aat	ata	att	aat	tta	tcg	ttg	ata	aat	ccc	240
Cys	Cys	Tyr	Lys	Asn	Lys	Asn	Ile	Ile	Asn	Leu	Ser	Leu	Ile	Asn	Pro	
65					70					75					80	
gaa	ata	tat	aaa	aat	att	att	aat	ata	aat	aat	aaa	aat	aat	aaa	aaa	288
Glu	Ile	Tyr	Lys	Asn	Ile	Ile	Asn	Ile	Asn	Asn	Lys	Asn	Asn	Lys	Lys	
				85					90					95		
aaa	tgc	att	aat	att	aat	gcc	att	aaa	gaa	aat	gaa	aat	aca	caa	tat	336
Lys	Cys	Ile	Asn	Ile	Asn	Ala	Ile	Lys	Glu	Asn	Glu	Asn	Thr	Gln	Tyr	
			100					105					110			
ctt	aaa	tat	tat	tta	aat	aat	tgc	aat	act	agt	ttt	gat	tct	ttt	att	384
Leu	Lys	Tyr	Tyr	Leu	Asn	Asn	Cys	Asn	Thr	Ser	Phe	Asp	Ser	Phe	Ile	
		115					120					125				
aaa	aaa	aaa	aaa	gaa	aag	aag	aaa	act	tta	ata	aag	tta	ttt	aat	aat	432
Lys	Lys	Lys	Lys	Glu	Lys	Lys	Lys	Thr	Leu	Ile	Lys	Leu	Phe	Asn	Asn	
	130					135					140					
gat	aat	gtg	cat	aat	ata	tca	aat	aac	act	aat	cat	act	aga	tat	tat	480
Asp	Asn	Val	His	Asn	Ile	Ser	Asn	Asn	Thr	Asn	His	Thr	Arg	Tyr	Tyr	

145	150	155	160	
gaa ata gag tct	gaa tat aat aac tta	aca tca gag gtt	aca ata aaa	528
Glu Ile Glu Ser	Glu Tyr Asn Asn Leu	Thr Ser Glu Val	Thr Ile Lys	
	165	170	175	
tat aaa ata ata	tta gaa ata att aat	gaa aaa att att	act gaa ggt	576
Tyr Lys Ile Ile	Leu Glu Ile Ile	Asn Glu Lys Ile	Ile Thr Glu Gly	
	180	185	190	
aga tta tta tta	cca aat tct att agt	ata act gtt tca	aat aga tca	624
Arg Leu Leu Leu	Pro Asn Ser Ile	Thr Val Ser Asn	Arg Ser	
	195	200	205	
aga att ata tta	tat gat aat aat aaa	ata cag ata ata	tta tca aaa	672
Arg Ile Ile Leu	Tyr Asp Asn Asn Lys	Ile Gln Ile Ile	Leu Ser Lys	
	210	215	220	
gat aaa tca gaa	aat aat atg caa	gat ttt aat aat	ata tgt tct aat	720
Asp Lys Ser Glu	Asn Asn Met Gln	Asp Phe Asn Asn	Ile Cys Ser Asn	
	225	230	235	240
ata tta aaa aca	ttc ttc tct ata	aca aaa gaa tac	aca aat aat gaa	768
Ile Leu Lys Thr	Phe Phe Ser Ile	Thr Lys Glu Tyr	Thr Asn Asn Glu	
	245	250	255	
ata aac gaa aaa	cac ata aaa tcg	ctt agt ata cat	tgt gat ttt aat	816
Ile Asn Glu Lys	His Ile Lys Ser	Leu Ser Ile His	Cys Asp Phe Asn	
	260	265	270	
tat act aat agt	ata tta aaa tac	cca ata ttt ttt	gaa gat aaa aaa	864
Tyr Thr Asn Ser	Ile Leu Lys Tyr	Pro Ile Phe Phe	Glu Asp Lys Lys	
	275	280	285	
ata agg ttt ttt	gga aaa aat aaa	att agt ata aaa	tcc ata aca tca	912
Ile Arg Phe Phe	Gly Lys Asn Lys	Ile Ser Ile Lys	Ser Ile Thr Ser	
	290	295	300	
aaa tct aaa tta	gag aaa att tac	aca tat ata gaa	aaa aat ata tgt	960
Lys Ser Lys Leu	Glu Lys Ile Tyr	Thr Tyr Ile Glu	Lys Asn Ile Cys	
	305	310	315	320
aat ata caa aaa	ttg tat gat gat	ata gat aat tgt	gat ccg ata aat	1008
Asn Ile Gln Lys	Leu Tyr Asp Asp	Ile Asp Asn Cys	Asp Pro Ile Asn	
	325	330	335	
gat ccc att gat	gat ata aat aca	cta gta aat aaa	ata tat ttc aat	1056
Asp Pro Ile Asp	Asp Ile Asn Thr	Leu Val Asn Lys	Ile Tyr Phe Asn	
	340	345	350	
aat tta ttg aaa	tta aat aaa tta	ata tta aat tat	aat gga ttt aat	1104
Asn Leu Leu Lys	Asn Lys Leu Ile	Leu Asn Tyr Asn	Gly Phe Asn	
	355	360	365	
aga ata cga caa	tta tta tat tga	acc tat tgc taa	tag aaa aga	1152
Arg Ile Arg Gln	Ser Leu Tyr	Thr Tyr Cys	Lys Arg	
	370	375		

tat ata tct aaa ttt tgt aac agc gcc ttt ggt gca aga tat aga ttg	1200
Tyr Ile Ser Lys Phe Cys Asn Ser Ala Phe Gly Ala Arg Tyr Arg Leu	
380 385 390 395	
ttc att aat aaa aca tga gga taa tat tta tga tgt tac taa ata ttt	1248
Phe Ile Asn Lys Thr Gly Tyr Leu Cys Tyr Ile Phe	
400 405	
tgt att taa aac ata caa tta cga aga tat ata tat agt tta tga tgt	1296
Cys Ile Asn Ile Gln Leu Arg Arg Tyr Ile Tyr Ser Leu Cys	
410 415 420	
gtt att aaa caa agt tgt att att taa att taa ttt tac aat aaa aga	1344
Val Ile Lys Gln Ser Cys Ile Ile Ile Phe Tyr Asn Lys Arg	
425 430 435	
ata tat aat tat aaa taa ttt ttt aat aat aat tta taa tga caa cga	1392
Ile Tyr Asn Tyr Lys Phe Phe Asn Asn Asn Leu Gln Arg	
440 445	
taa cat aat aat tga tat cga aga taa aaa ata tat aaa att taa aaa	1440
His Asn Asn Tyr Arg Arg Lys Ile Tyr Lys Ile Lys	
450 455 460	
atg gaa atc ttt att act aaa ttg tac aca aat agc taa tta tat taa	1488
Met Glu Ile Phe Ile Thr Lys Leu Tyr Thr Asn Ser Leu Tyr	
465 470	
att aat aga aga tga aaa taa aaa aat att tgt taa ata tat aac aaa	1536
Ile Asn Arg Arg Lys Lys Asn Ile Cys Ile Tyr Asn Lys	
475 480 485	
aaa tga tat ttt aat aga taa taa tac tat tga taa taa taa aat aaa	1584
Lys Tyr Phe Asn Arg Tyr Tyr Asn Lys	
490 495	
aaa ata taa taa aat aaa atg tat taa tat aga aaa taa agt tac att	1632
Lys Ile Asn Lys Met Tyr Tyr Arg Lys Ser Tyr Ile	
500 505	
atc aat att aga caa taa taa tga att ata tat aaa taa taa att att	1680
Ile Asn Ile Arg Gln Ile Ile Tyr Lys Ile Ile	
510 515	
taa gct aga tta caa tat ata taa tat att taa ttt ttc gtt aaa aca	1728
Ala Arg Leu Gln Tyr Ile Tyr Ile Phe Phe Val Lys Thr	
520 525 530	
tgt att att att aac aga tat aga cga tgg aaa tat tat aat ttt aaa	1776
Cys Ile Ile Ile Asn Arg Tyr Arg Arg Trp Lys Tyr Tyr Asn Phe Lys	
535 540 545	
ttt aga aaa ttt aga aca aga tga ata caa aaa tta tta tga tat aat	1824
Phe Arg Lys Phe Arg Thr Arg Ile Gln Lys Leu Leu Tyr Asn	
550 555 560	

```

agt aat gat aaa tga taa gtt tta taa taa tat cag aaa cgc att ttt      1872
Ser Asn Asp Lys          Val Leu          Tyr Gln Lys Arg Ile Phe
          565                      570

```

```

agt taa tga tta a                      1885
Ser          Leu
575

```

<210> 42

<211> 789

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(789)

<223>

```

<400> 42
atg ctc gat ata acc aaa tct att ata tct tcg ggt ata aat ata aaa      48
Met Leu Asp Ile Thr Lys Ser Ile Ile Ser Ser Gly Ile Asn Ile Lys
1          5          10          15

```

```

tta cca agt gtt aac ata ata caa aat ata aaa cca aaa tat tat aat      96
Leu Pro Ser Val Asn Ile Ile Gln Asn Ile Lys Pro Lys Tyr Tyr Asn
          20          25          30

```

```

aat agt tct ccc aaa tca tat ttt ggg att ata tat cat tta ttg tca      144
Asn Ser Ser Pro Lys Ser Tyr Phe Gly Ile Ile Tyr His Leu Leu Ser
          35          40          45

```

```

ata gtt ata gaa ata caa gac aca tat aaa tta aat gat aat ata gga      192
Ile Val Ile Glu Ile Gln Asp Thr Tyr Lys Leu Asn Asp Asn Ile Gly
          50          55          60

```

```

tat ttt aca aaa tat gat gat atg aag aaa aaa aat aaa aca gat tac      240
Tyr Phe Thr Lys Tyr Asp Asp Met Lys Lys Lys Asn Lys Thr Asp Tyr
65          70          75          80

```

```

gat tat tct tat aat aat ctt ttt aaa aca gat att aaa tta gaa aaa      288
Asp Tyr Ser Tyr Asn Asn Leu Phe Lys Thr Asp Ile Lys Leu Glu Lys
          85          90          95

```

```

agt ggt tca tcg atg aag aat tgg aca aat ata tat aat aca aca gat      336
Ser Gly Ser Ser Met Lys Asn Trp Thr Asn Ile Tyr Asn Thr Thr Asp
          100          105          110

```

```

gtt act att gat ata tta aat ccg tta aat aaa aaa cac gat aaa cta      384
Val Thr Ile Asp Ile Leu Asn Pro Leu Asn Lys Lys His Asp Lys Leu
      115                      120                      125

tct ata aga tta cct tgt gta ata tct aca tct gtt ata cat tat tta      432
Ser Ile Arg Leu Pro Cys Val Ile Ser Thr Ser Val Ile His Tyr Leu
      130                      135                      140

tat att tta tca tat att tat gaa tca gtt aca tta ata aaa gaa gat      480
Tyr Ile Leu Ser Tyr Ile Tyr Glu Ser Val Thr Leu Ile Lys Glu Asp
      145                      150                      155                      160

ttg tgg tta aac gat agt ttt ata gtt aaa tgt gaa aat tta aga aca      528
Leu Trp Leu Asn Asp Ser Phe Ile Val Lys Cys Glu Asn Leu Arg Thr
      165                      170                      175

aat aat tat aat aat gta aaa tcg cag tta aaa aca att gta ttt aat      576
Asn Asn Tyr Asn Asn Val Lys Ser Gln Leu Lys Thr Ile Val Phe Asn
      180                      185                      190

gaa aaa aca aga caa tat aaa ata gac gga tta ttt aaa aat ttc ata      624
Glu Lys Thr Arg Gln Tyr Lys Ile Asp Gly Leu Phe Lys Asn Phe Ile
      195                      200                      205

ata gac gaa agt ttt aaa aat ata ata agt aaa ttt att aat gat att      672
Ile Asp Glu Ser Phe Lys Asn Ile Ile Ser Lys Phe Ile Asn Asp Ile
      210                      215                      220

caa tgt gtt ata tgc gat cta tgg tta act att caa aaa aat ata aat      720
Gln Cys Val Ile Cys Asp Leu Trp Leu Thr Ile Gln Lys Asn Ile Asn
      225                      230                      235                      240

gat tca cca tct gat aga aaa aaa att tat tgg gaa gaa tat gat aat      768
Asp Ser Pro Ser Asp Arg Lys Lys Ile Tyr Trp Glu Glu Tyr Asp Asn
      245                      250                      255

att ttg gga ttt caa aat tga      789
Ile Leu Gly Phe Gln Asn
      260

```

<210> 43

<211> 2304

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(2304)

<223>

<400> 43

atg gat ata aca gat aat agt tat gaa tat tcg aca ata aac cca caa	48
Met Asp Ile Thr Asp Asn Ser Tyr Glu Tyr Ser Thr Ile Asn Pro Gln	
1 5 10 15	
ggt ata ttt tta ttt gat gaa aac aag aat gtt aaa aag aca ata ttt	96
Val Ile Phe Leu Phe Asp Glu Asn Lys Asn Val Lys Lys Thr Ile Phe	
20 25 30	
tta tct aaa gat agt ata ata gat aat agt ttt gca tat gga gta tat	144
Leu Ser Lys Asp Ser Ile Ile Asp Asn Ser Phe Ala Tyr Gly Val Tyr	
35 40 45	
aat tat tta tta tct aca aat aca aaa ttt cta tca caa cca gaa tat	192
Asn Tyr Leu Leu Ser Thr Asn Thr Lys Phe Leu Ser Gln Pro Glu Tyr	
50 55 60	
att aat gat cat gtt ata tta tca ttc aat ctt gaa caa gct aga gga	240
Ile Asn Asp His Val Ile Leu Ser Phe Asn Leu Glu Gln Ala Arg Gly	
65 70 75 80	
tac att aga aat ata tta aga att aac gaa aat att att tta ttt tca	288
Tyr Ile Arg Asn Ile Leu Arg Ile Asn Glu Asn Ile Ile Leu Phe Ser	
85 90 95	
ata tgg cat aat tta gat tat tat tat aat aac aat gaa ata ttt gat	336
Ile Trp His Asn Leu Asp Tyr Tyr Tyr Asn Asn Asn Glu Ile Phe Asp	
100 105 110	
cca tat aat ata aaa aat aat tta tta ata gaa tct aat gat aat aaa	384
Pro Tyr Asn Ile Lys Asn Asn Leu Leu Ile Glu Ser Asn Asp Asn Lys	
115 120 125	
aaa ata tta tat atg tta gat att agt att act aat ggt gct ata ttt	432
Lys Ile Leu Tyr Met Leu Asp Ile Ser Ile Thr Asn Gly Ala Ile Phe	
130 135 140	
tgt gtt act act aac agt tat act aat aca aat tta gct aaa gaa ggc	480
Cys Val Thr Thr Asn Ser Tyr Thr Asn Thr Asn Leu Ala Lys Glu Gly	
145 150 155 160	
ata tat tca aaa att tat aca gaa tat ata caa gaa ata ata ttt aat	528
Ile Tyr Ser Lys Ile Tyr Thr Glu Tyr Ile Gln Glu Ile Ile Phe Asn	
165 170 175	
ata tat aaa aat aac tat aaa tta tct tcc gtt gta aaa gaa tca gaa	576
Ile Tyr Lys Asn Asn Tyr Lys Leu Ser Ser Val Val Lys Glu Ser Glu	
180 185 190	
gaa tat tct tta aca aat aat ttt gat gat ata atc aaa tta tca aat	624
Glu Tyr Ser Leu Thr Asn Asn Phe Asp Asp Ile Ile Lys Leu Ser Asn	

195	200	205	
att aat aaa tat aaa aag aca tta tgt att ggc gta tat gat aaa tat Ile Asn Lys Tyr Lys Lys Thr Leu Cys Ile Gly Val Tyr Asp Lys Tyr 210 215 220			672
tat ata aag ggt gat aaa ata tca atc ttg gat aac tac aac gat tca Tyr Ile Lys Gly Asp Lys Ile Ser Ile Leu Asp Asn Tyr Asn Asp Ser 225 230 235 240			720
gaa tat aca tca tta tac ata tat ata gat caa aat aat ata ata aaa Glu Tyr Thr Ser Leu Tyr Ile Tyr Ile Asp Gln Asn Asn Ile Ile Lys 245 250 255			768
atc act aat gat gta tta ata aca gaa aaa tta act tat ttt aca gat Ile Thr Asn Asp Val Leu Ile Thr Glu Lys Leu Thr Tyr Phe Thr Asp 260 265 270			816
ata tta aaa gaa gaa gaa ata aaa aat ata att att aaa tca act agt Ile Leu Lys Glu Glu Glu Ile Lys Asn Ile Ile Ile Lys Ser Thr Ser 275 280 285			864
cca aaa agt att ata tat ata tat ttt gat acg ttt tta gac tct aat Pro Lys Ser Ile Ile Tyr Ile Tyr Phe Asp Thr Phe Leu Asp Ser Asn 290 295 300			912
ata aat ata caa tat gat ctt aaa ttt ttt cta aat gtt aca aac act Ile Asn Ile Gln Tyr Asp Leu Lys Phe Phe Leu Asn Val Thr Asn Thr 305 310 315 320			960
aga aat ata ttt ata gat atg tct tat aaa att aat att atg aca tct Arg Asn Ile Phe Ile Asp Met Ser Tyr Lys Ile Asn Ile Met Thr Ser 325 330 335			1008
aaa aat cac ata tca ttt aga tct ttt aac ata gat gta aat tta tgt Lys Asn His Ile Ser Phe Arg Ser Phe Asn Ile Asp Val Asn Leu Cys 340 345 350			1056
aaa tat tta tcg tta ttg ata tta gga tat aat cat att ttt aat aaa Lys Tyr Leu Ser Leu Leu Ile Leu Gly Tyr Asn His Ile Phe Asn Lys 355 360 365			1104
ata caa aaa cac gct aga ctt aaa aaa att gat gag ctt tat cct tcg Ile Gln Lys His Ala Arg Leu Lys Lys Ile Asp Glu Leu Tyr Pro Ser 370 375 380			1152
agg tat tgt caa aat tat aaa gat gtt aaa aga caa cct gtt tta ata Arg Tyr Cys Gln Asn Tyr Lys Asp Val Lys Arg Gln Pro Val Leu Ile 385 390 395 400			1200
gat tcg ata gat gaa aat tat tta att aaa ata tct gat aaa tat tat Asp Ser Ile Asp Glu Asn Tyr Leu Ile Lys Ile Ser Asp Lys Tyr Tyr 405 410 415			1248
gtg ggt aaa gaa gat act aca agg aca tat caa cac aaa gga act aaa Val Gly Lys Glu Asp Thr Thr Arg Thr Tyr Gln His Lys Gly Thr Lys 420 425 430			1296

aaa ata ttt gat cca tac aaa tac ggt gat gtt tat ata gat gat aat	1344
Lys Ile Phe Asp Pro Tyr Lys Tyr Gly Asp Val Tyr Ile Asp Asp Asn	
435 440 445	
ggt tta ata tat caa tgt tct agt att tat tat tca aat atg gga ttt	1392
Gly Leu Ile Tyr Gln Cys Ser Ser Ile Tyr Tyr Ser Asn Met Gly Phe	
450 455 460	
ttg aat aat ata tat tta gct agt gga gga aaa act tgt tat cct tgt	1440
Leu Asn Asn Ile Tyr Leu Ala Ser Gly Gly Lys Thr Cys Tyr Pro Cys	
465 470 475 480	
tgt tat tca aaa cag aaa aat aga gat gaa ata ttc gaa tct tgc gtt	1488
Cys Tyr Ser Lys Gln Lys Asn Arg Asp Glu Ile Phe Glu Ser Cys Val	
485 490 495	
tat aat aaa gaa att att tta gaa gat aaa ata aat ccc ata ata gtt	1536
Tyr Asn Lys Glu Ile Ile Leu Glu Asp Lys Ile Asn Pro Ile Ile Val	
500 505 510	
aat tat gga aga att ata tta agt aag aat ggt tta tct aaa tta tca	1584
Asn Tyr Gly Arg Ile Ile Leu Ser Lys Asn Gly Leu Ser Lys Leu Ser	
515 520 525	
cct aaa tta aat aat att tta aac gct aat tca aaa ata gat att gtt	1632
Pro Lys Leu Asn Asn Ile Leu Asn Ala Asn Ser Lys Ile Asp Ile Val	
530 535 540	
aaa cat act aat aga ata gat ttt tca gat aat tat aca ata ata atg	1680
Lys His Thr Asn Arg Ile Asp Phe Ser Asp Asn Tyr Thr Ile Ile Met	
545 550 555 560	
tca tat caa cca act att act ata aga aat ttt gat gac atg tat tat	1728
Ser Tyr Gln Pro Thr Ile Thr Ile Arg Asn Phe Asp Asp Met Tyr Tyr	
565 570 575	
ttt att ata aac aat aat gct att gtt att aat gat aat ata gtt tat	1776
Phe Ile Ile Asn Asn Asn Ala Ile Val Ile Asn Asp Asn Ile Val Tyr	
580 585 590	
act gat aaa agt ata tta aaa atg aat aat aat aat ata aat gta ttt	1824
Thr Asp Lys Ser Ile Leu Lys Met Asn Asn Asn Asn Ile Asn Val Phe	
595 600 605	
ata ata ata caa aat aga att cat caa tta aaa aat att gat aaa caa	1872
Ile Ile Ile Gln Asn Arg Ile His Gln Leu Lys Asn Ile Asp Lys Gln	
610 615 620	
tca aaa tat gat gat ata gta gtt aat aaa ata gat gat aaa aaa ata	1920
Ser Lys Tyr Asp Asp Ile Val Val Asn Lys Ile Asp Asp Lys Lys Ile	
625 630 635 640	
aaa ata att aaa aaa tac ttt aat ata ata tcc aat ata cga aat cca	1968
Lys Ile Ile Lys Lys Tyr Phe Asn Ile Ile Ser Asn Ile Arg Asn Pro	
645 650 655	

ata tct aat aat gga att tct ata aca gat gat gtt tgt act ata gat 2016
 Ile Ser Asn Asn Gly Ile Ser Ile Thr Asp Asp Val Cys Thr Ile Asp
 660 665 670

ggt gaa tta ata gaa aat aaa aat att aaa tat ttt tct gaa tat aat 2064
 Gly Glu Leu Ile Glu Asn Lys Asn Ile Lys Tyr Phe Ser Glu Tyr Asn
 675 680 685

aat att tct tta aaa cct aaa agt act agc gaa tat ata gaa aag tat 2112
 Asn Ile Ser Leu Lys Pro Lys Ser Thr Ser Glu Tyr Ile Glu Lys Tyr
 690 695 700

ttt aaa caa tat ttt gat act ata tat act aat aat att aga tta ttt 2160
 Phe Lys Gln Tyr Phe Asp Thr Ile Tyr Thr Asn Asn Ile Arg Leu Phe
 705 710 715 720

ata aaa ata ttt ata acg aaa ata atg cat agt ata aaa gaa aca gac 2208
 Ile Lys Ile Phe Ile Thr Lys Ile Met His Ser Ile Lys Glu Thr Asp
 725 730 735

att ata aaa aca gat tat act aaa tta gaa gaa aaa tta aat aat att 2256
 Ile Ile Lys Thr Asp Tyr Thr Lys Leu Glu Glu Lys Leu Asn Asn Ile
 740 745 750

act aat aaa caa atg tca tct gtt ata ttg tca aaa aaa agt att taa 2304
 Thr Asn Lys Gln Met Ser Ser Val Ile Leu Ser Lys Lys Ser Ile
 755 760 765

<210> 44

<211> 318

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (318)

<223>

<400> 44

atg tta cca aaa tat tgg gga aga gga gcg tgg gtt gtt att ttt aca 48
 Met Leu Pro Lys Tyr Trp Gly Arg Gly Ala Trp Val Val Ile Phe Thr
 1 5 10 15

aga ata tat tat aca att tct act tta aat aaa gaa aat tat ata cat 96
 Arg Ile Tyr Tyr Thr Ile Ser Thr Leu Asn Lys Glu Asn Tyr Ile His
 20 25 30

```

aat gtt gaa aaa tta aaa tta ata tta tat ttg ata tgt agt aca tta      144
Asn Val Glu Lys Leu Lys Leu Ile Leu Tyr Leu Ile Cys Ser Thr Leu
      35                      40                      45

cca tgc gaa aca tgt gca gct gaa gct aaa aaa aaa ata caa aaa aat      192
Pro Cys Glu Thr Cys Ala Ala Glu Ala Lys Lys Lys Ile Gln Lys Asn
      50                      55                      60

aat ata atg tct gaa tta aat att aat aga att tta cat ttt tat ata      240
Asn Ile Met Ser Glu Leu Asn Ile Asn Arg Ile Leu His Phe Tyr Ile
      65                      70                      75                      80

gaa ttt tat aat ata ttt cat aat aat aaa ata gat aga aaa aaa ata      288
Glu Phe Tyr Asn Ile Phe His Asn Asn Lys Ile Asp Arg Lys Lys Ile
      85                      90                      95

aaa aca tat gat act ttt aac tat gta taa      318
Lys Thr Tyr Asp Thr Phe Asn Tyr Val
      100                      105

```

<210> 45

<211> 1703

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1703)

<223>

```

<400> 45
atg aaa aga acg ttt ata cca ttt agt aaa act aat ata gat tca gat      48
Met Lys Arg Thr Phe Ile Pro Phe Ser Lys Thr Asn Ile Asp Ser Asp
1                      5                      10                      15

agg cct aat att tat ata aca gaa act aaa aat ggt aaa tat aac ata      96
Arg Pro Asn Ile Tyr Ile Thr Glu Thr Lys Asn Gly Lys Tyr Asn Ile
      20                      25                      30

cca caa tat gta tca agt cct tgt acg ttt caa gat ggt tat gca gta      144
Pro Gln Tyr Val Ser Ser Pro Cys Thr Phe Gln Asp Gly Tyr Ala Val
      35                      40                      45

gct tct ata aca gat att aaa tta gaa ggc tgt aat aat ttt gga tta      192
Ala Ser Ile Thr Asp Ile Lys Leu Glu Gly Cys Asn Asn Phe Gly Leu

```

50	55	60	
aat ata act ttg cct gaa ata aaa ggt ata ggt ggt gtt agg ttt cag			240
Asn Ile Thr Leu Pro Glu Ile Lys Gly Ile Gly Gly Val Arg Phe Gln			
65	70	75	80
aat tat ttc att cct aaa ctt atc gaa gaa tgt att ata gaa act atc			288
Asn Tyr Phe Ile Pro Lys Leu Ile Glu Glu Cys Ile Ile Glu Thr Ile			
	85	90	95
gat gat aat aaa act aac gaa ata att aga aaa act ggg ctt gaa ttt			336
Asp Asp Asn Lys Thr Asn Glu Ile Ile Arg Lys Thr Gly Leu Glu Phe			
	100	105	110
tta atg gat ttt ata cag aag aaa aaa gaa tat tcg aga ttt gta ggc			384
Leu Met Asp Phe Ile Gln Lys Lys Lys Glu Tyr Ser Arg Phe Val Gly			
	115	120	125
aat aat tct gat tta tgt aaa ttt aaa tat ggt aaa gtg ctg atg ata			432
Asn Asn Ser Asp Leu Cys Lys Phe Lys Tyr Gly Lys Val Leu Met Ile			
	130	135	140
tta ttt ttc cat cta aag aag tat att ttc ctc taa tgt tta tat ttg			480
Leu Phe Phe His Leu Lys Lys Tyr Ile Phe Leu Cys Leu Tyr Leu			
145	150	155	
ata atg tta ata tga atc cca gaa ctt gtt tta gat tat tcc ctg aaa			528
Ile Met Leu Ile Ile Pro Glu Leu Val Leu Asp Tyr Ser Leu Lys			
160	165	170	
cta aat tac aaa taa aaa taa aat tta gac cat ttg cag ata ttt tat			576
Leu Asn Tyr Lys Lys Asn Leu Asp His Leu Gln Ile Phe Tyr			
175	180	185	
tac ccg atg taa aat ata aga aaa ata gtc tta aaa ata ttt cag atg			624
Tyr Pro Met Asn Ile Arg Lys Ile Val Leu Lys Ile Phe Gln Met			
190	195	200	
ttg atc tac aac cat ata taa aat tta ctg gtt ata ata cgt gcg gaa			672
Leu Ile Tyr Asn His Ile Asn Leu Leu Val Ile Ile Arg Ala Glu			
205	210	215	
gtc ctt tta aac ata gat ata tag aag aat taa ctt att cta cac aca			720
Val Leu Leu Asn Ile Asp Ile Lys Asn Leu Ile Leu His Thr			
220	225	230	
aaa gta ata aaa aga att att att cac ctg aat ttt tat cta taa cta			768
Lys Val Ile Lys Arg Ile Ile Ile His Leu Asn Phe Tyr Leu Leu			
235	240	245	
atc tat tat ggt att cta aat ctg ata ttt tca gag gaa ata tgt tta			816
Ile Tyr Tyr Gly Ile Leu Asn Leu Ile Phe Ser Glu Glu Ile Cys Leu			
250	255	260	
tat cat atc ccg att atc cag aaa cag aag aaa att tta tca aaa cat			864
Tyr His Ile Pro Ile Ile Gln Lys Gln Lys Lys Ile Leu Ser Lys His			
265	270	275	

acg ttg ata aat tat taa aag atc ttt taa tta ttt ctg atg atg aaa	912
Thr Leu Ile Asn Tyr Lys Ile Phe Leu Phe Leu Met Met Lys	
280 285 290	
act tta tta aat caa aag gat tta gtg ata aat gta agt tta aaa aaa	960
Thr Leu Leu Asn Gln Lys Asp Leu Val Ile Asn Val Ser Leu Lys Lys	
295 300 305	
ttg atc cgt gtg ata aaa ttg tgt ttg atg tta ata ata att gtg aaa	1008
Leu Ile Arg Val Ile Lys Leu Cys Leu Met Leu Ile Ile Ile Val Lys	
310 315 320 325	
tta ata taa tga atg tcc cgg aag gtt ttg att tat att atc ata caa	1056
Leu Ile Met Ser Arg Lys Val Leu Ile Tyr Ile Ile Ile Gln	
330 335	
ata tat tat cat tca gta gaa gaa ata acc caa atg att ata ata ttt	1104
Ile Tyr Tyr His Ser Val Glu Glu Ile Thr Gln Met Ile Ile Ile Phe	
340 345 350 355	
cta aaa aat tta gta aaa tat ctg gaa cat ata tac cta acg aag ata	1152
Leu Lys Asn Leu Val Lys Tyr Leu Glu His Ile Tyr Leu Thr Lys Ile	
360 365 370	
aga ttt taa tac acg aag taa aac ata caa taa aca tat ctg acg tta	1200
Arg Phe Tyr Thr Lys Asn Ile Gln Thr Tyr Leu Thr Leu	
375 380	
gta ttc cat tga gta tat gga atg caa atg aga ata ctt cta cgg gtg	1248
Val Phe His Val Tyr Gly Met Gln Met Arg Ile Leu Leu Arg Val	
385 390 395	
att tga gat cta tta aat cta aaa aat cag ata tat atg taa atg atc	1296
Ile Asp Leu Leu Asn Leu Lys Asn Gln Ile Tyr Met Met Ile	
400 405 410	
ctt ttg ttt ttg gat tag att ttt tat caa aag aat tag gaa tta tta	1344
Leu Leu Phe Leu Asp Ile Phe Tyr Gln Lys Asn Glu Leu Leu	
415 420 425	
gca gat cta taa caa gta gtt cta atg aat caa tag ctg aat ata aca	1392
Ala Asp Leu Gln Val Val Leu Met Asn Gln Leu Asn Ile Thr	
430 435 440	
gtg ata ccg taa ata ttg aat cat att ttc aat ctg ata att tat ttg	1440
Val Ile Pro Ile Leu Asn His Ile Phe Asn Leu Ile Ile Tyr Leu	
445 450 455	
cag tta cgc caa cat cag aat att caa acc cag caa tat ttt tac ata	1488
Gln Leu Arg Gln His Gln Asn Ile Gln Thr Gln Gln Tyr Phe Tyr Ile	
460 465 470	
gat tta atc ttc ata ata taa ttt tta ttg aac cat cta gat taa tag	1536
Asp Leu Ile Phe Ile Ile Phe Leu Leu Asn His Leu Asp	
475 480 485	

ccg atg ctg cta aaa att tta gat gcg tta att taa gta tag att gga 1584
 Pro Met Leu Leu Lys Ile Leu Asp Ala Leu Ile Val Ile Gly
 490 495

aag aat ttc ctg aag tag atc caa gaa gtt tat tta aca aag aat tac 1632
 Lys Asn Phe Leu Lys Ile Gln Glu Val Tyr Leu Thr Lys Asn Tyr
 500 505 510

aaa ttt gtc aaa cta ttg tta aaa aaa tat cat atg ata ata ata tta 1680
 Lys Phe Val Lys Leu Leu Leu Lys Lys Tyr His Met Ile Ile Ile Leu
 515 520 525 530

taa ccg ttc ata ttc tag agt aa 1703
 Pro Phe Ile Phe Ser
 535

<210> 46

<211> 2619

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(2619)

<223>

<400> 46
 atg tct atc gac gtt tct gat att att aat gat tgt ata aaa ttt tat 48
 Met Ser Ile Asp Val Ser Asp Ile Ile Asn Asp Cys Ile Lys Phe Tyr
 1 5 10 15

agt aat att aat ttt gat agt aat cca aat gtt aat aat gaa ata gaa 96
 Ser Asn Ile Asn Phe Asp Ser Asn Pro Asn Val Asn Asn Glu Ile Glu
 20 25 30

ttt aca tac ata aat cca gat tta aga att tta tct aat att tat act 144
 Phe Thr Tyr Ile Asn Pro Asp Leu Arg Ile Leu Ser Asn Ile Tyr Thr
 35 40 45

gat aat aat gaa tct aaa aaa aaa aca tat tta gaa tat gta ctt aaa 192
 Asp Asn Asn Glu Ser Lys Lys Lys Thr Tyr Leu Glu Tyr Val Leu Lys
 50 55 60

ttt gct aac aaa aag tct aaa tta aga caa aaa tat aaa tat gat tat 240
 Phe Ala Asn Lys Lys Ser Lys Leu Arg Gln Lys Tyr Lys Tyr Asp Tyr
 65 70 75 80

cct act ttt gaa ata gca aat tca tat ttt tta gat aaa ctt act aat	288
Pro Thr Phe Glu Ile Ala Asn Ser Tyr Phe Leu Asp Lys Leu Thr Asn	
85 90 95	
aat tgg gaa aga aaa act ata ata tca gaa gat aaa ata aat att aat	336
Asn Trp Glu Arg Lys Thr Ile Ile Ser Glu Asp Lys Ile Asn Ile Asn	
100 105 110	
aaa aat gaa tat att tta ttg aga cat aat act gaa tat caa gat aat	384
Lys Asn Glu Tyr Ile Leu Leu Arg His Asn Thr Glu Tyr Gln Asp Asn	
115 120 125	
gat ata gaa tta ccg tta tta aat gat ata ttg gat aaa ata aat gta	432
Asp Ile Glu Leu Pro Leu Leu Asn Asp Ile Leu Asp Lys Ile Asn Val	
130 135 140	
tta ttt gtt tcg caa tta tat ata att ata aat gat tta ata aaa gtt	480
Leu Phe Val Ser Gln Leu Tyr Ile Ile Ile Asn Asp Leu Ile Lys Val	
145 150 155 160	
gaa ttt aaa ata aaa tca aac att gga cca tta tcg tca aat aaa tta	528
Glu Phe Lys Ile Lys Ser Asn Ile Gly Pro Leu Ser Ser Asn Lys Leu	
165 170 175	
tta tta agt aca cat ttc aat gat ata gaa aca tat aga aaa aat ata	576
Leu Leu Ser Thr His Phe Asn Asp Ile Glu Thr Tyr Arg Lys Asn Ile	
180 185 190	
aca tat tat tta gaa ata gaa gta cta tct aaa aca aaa ttg gat aat	624
Thr Tyr Tyr Leu Glu Ile Glu Val Leu Ser Lys Thr Lys Leu Asp Asn	
195 200 205	
aat gta ctt tat gat aat tta gta aaa tct ttt gaa tat ata tat aaa	672
Asn Val Leu Tyr Asp Asn Leu Val Lys Ser Phe Glu Tyr Ile Tyr Lys	
210 215 220	
agc aaa aat ata tct aat ata agt tta gtt aca ata aaa aat aaa cct	720
Ser Lys Asn Ile Ser Asn Ile Ser Leu Val Thr Ile Lys Asn Lys Pro	
225 230 235 240	
aaa ata aaa aca cat atg ata caa tat aat aaa tta aat aca att gat	768
Lys Ile Lys Thr His Met Ile Gln Tyr Asn Lys Leu Asn Thr Ile Asp	
245 250 255	
aaa gaa tca tat att atg gct att aaa att gat gga gat gtt gta gaa	816
Lys Glu Ser Tyr Ile Met Ala Ile Lys Ile Asp Gly Asp Val Val Glu	
260 265 270	
ttt aat gtt atg aat gga att tgt aat atc ata ata tat gat atg gta	864
Phe Asn Val Met Asn Gly Ile Cys Asn Ile Ile Ile Tyr Asp Met Val	
275 280 285	
tat aaa aat ttt tca tgt aac ata gat aaa aat ata caa atg ata ggt	912
Tyr Lys Asn Phe Ser Cys Asn Ile Asp Lys Asn Ile Gln Met Ile Gly	
290 295 300	

atg gga gaa tac att aag gta gat aat gtt aaa aaa ata tat cca ttt	960
Met Gly Glu Tyr Ile Lys Val Asp Asn Val Lys Lys Ile Tyr Pro Phe	
305 310 315 320	
tat ttt tca aaa tta tct tat aat aat aaa aaa ata ata aat aat att	1008
Tyr Phe Ser Lys Leu Ser Tyr Asn Asn Lys Lys Ile Ile Asn Asn Ile	
325 330 335	
cta gat aga tat aag caa ata caa tat tat aat gat aat tta ttg tgt	1056
Leu Asp Arg Tyr Lys Gln Ile Gln Tyr Tyr Asn Asp Asn Leu Leu Cys	
340 345 350	
cat aaa cca aat atg caa att aaa ttt gaa aac aaa tta act tta aaa	1104
His Lys Pro Asn Met Gln Ile Lys Phe Glu Asn Lys Leu Thr Leu Lys	
355 360 365	
ttt gac gaa aat aac gta act aca aat gta cta aaa ttt tat aaa tca	1152
Phe Asp Glu Asn Asn Val Thr Thr Asn Val Leu Lys Phe Tyr Lys Ser	
370 375 380	
ata gaa aat agt tca ttt aaa aat ata tac gat ggt att gta tta cta	1200
Ile Glu Asn Ser Ser Phe Lys Asn Ile Tyr Asp Gly Ile Val Leu Leu	
385 390 395 400	
gat att aca gat aat gat tct aaa aaa gat tat aaa ttt aaa ata gat	1248
Asp Ile Thr Asp Asn Asp Ser Lys Lys Asp Tyr Lys Phe Lys Ile Asp	
405 410 415	
aat act gta gat gtt ata tgt aaa ttg gac act tat aga gga aca tat	1296
Asn Thr Val Asp Val Ile Cys Lys Leu Asp Thr Tyr Arg Gly Thr Tyr	
420 425 430	
ata tta cac aat gat aat aaa tta tat ata act ttt aca tta tat caa	1344
Ile Leu His Asn Asp Asn Lys Leu Tyr Ile Thr Phe Thr Leu Tyr Gln	
435 440 445	
tat gat aat aaa aat ttt aca gaa att tta aaa tac gaa gaa aag aac	1392
Tyr Asp Asn Lys Asn Phe Thr Glu Ile Leu Lys Tyr Glu Glu Lys Asn	
450 455 460	
gaa att ata gaa tat aat aat tat gtt aac tta tta att ttt aat aat	1440
Glu Ile Ile Glu Tyr Asn Asn Tyr Val Asn Leu Leu Ile Phe Asn Asn	
465 470 475 480	
aat aat aaa ttt ggt cct aaa aaa atg tta tcg ccc ata tgg tgt att	1488
Asn Asn Lys Phe Gly Pro Lys Lys Met Leu Ser Pro Ile Trp Cys Ile	
485 490 495	
gta gaa tat tca ttt tta gaa tct aaa att att gga tta aga atc gat	1536
Val Glu Tyr Ser Phe Leu Glu Ser Lys Ile Ile Gly Leu Arg Ile Asp	
500 505 510	
aaa act aat aat ttc tat aga caa aat tat aat ggc aat aat cta gat	1584
Lys Thr Asn Asn Phe Tyr Arg Gln Asn Tyr Asn Gly Asn Asn Leu Asp	
515 520 525	
gtt ata tta aca tcc aaa cac att cac gaa gaa ttt cca tca aat tat	1632

Val	Ile	Leu	Thr	Ser	Lys	His	Ile	His	Glu	Glu	Phe	Pro	Ser	Asn	Tyr		
530						535					540						
aat	att	gat	tat	tta	atg	tct	tta	aat	gaa	act	ata	aat	gta	ata	gat	1680	
Asn	Ile	Asp	Tyr	Leu	Met	Ser	Leu	Asn	Glu	Thr	Ile	Asn	Val	Ile	Asp		
545					550					555					560		
aat	aat	cca	cac	aga	tcc	aaa	tta	tta	tta	aat	aaa	gaa	gtt	aat	aaa	1728	
Asn	Asn	Pro	His	Arg	Ser	Lys	Leu	Leu	Leu	Asn	Lys	Glu	Val	Asn	Lys		
				565						570					575		
tat	ttt	atg	aat	aat	act	att	aga	aca	tct	ata	aat	ata	tta	aca	aat	1776	
Tyr	Phe	Met	Asn	Asn	Thr	Ile	Arg	Thr	Ser	Ile	Asn	Ile	Leu	Thr	Asn		
				580						585					590		
tat	tta	aaa	act	aat	ggg	ata	tcg	atg	gct	ata	tca	aaa	tta	gta	aca	1824	
Tyr	Leu	Lys	Thr	Asn	Gly	Ile	Ser	Met	Ala	Ile	Ser	Lys	Leu	Val	Thr		
		595						600					605				
act	tta	cca	aat	aga	tat	gtt	tta	agt	ata	gat	ata	gga	aga	gga	gga	1872	
Thr	Leu	Pro	Asn	Arg	Tyr	Val	Leu	Ser	Ile	Asp	Ile	Gly	Arg	Gly	Gly		
		610					615					620					
gat	tta	act	aaa	tat	tat	tat	gtc	gga	ata	aca	gga	atg	tta	gga	aca	1920	
Asp	Leu	Thr	Lys	Tyr	Tyr	Tyr	Val	Gly	Ile	Thr	Gly	Met	Leu	Gly	Thr		
625						630				635					640		
gat	cct	gat	att	ttt	gct	ata	aaa	gaa	gca	aga	gat	aga	tat	aaa	aaa	1968	
Asp	Pro	Asp	Ile	Phe	Ala	Ile	Lys	Glu	Ala	Arg	Asp	Arg	Tyr	Lys	Lys		
				645						650					655		
tta	caa	act	ata	tca	aat	gcc	caa	gct	agt	ata	tat	aaa	ttt	gat	agt	2016	
Leu	Gln	Thr	Ile	Ser	Asn	Ala	Gln	Ala	Ser	Ile	Tyr	Lys	Phe	Asp	Ser		
				660					665					670			
ttg	aac	atg	tct	ata	tta	aat	gat	aat	tat	gaa	aat	gaa	ata	aaa	aat	2064	
Leu	Asn	Met	Ser	Ile	Leu	Asn	Asp	Asn	Tyr	Glu	Asn	Glu	Ile	Lys	Asn		
		675					680							685			
aaa	ttt	atg	aca	cat	cac	aaa	ata	caa	tat	ttt	gga	gtt	ata	gag	tgg	2112	
Lys	Phe	Met	Thr	His	His	Lys	Ile	Gln	Tyr	Phe	Gly	Val	Ile	Glu	Trp		
		690					695				700						
caa	tta	gct	att	cat	tat	tct	tac	aat	aac	aat	aca	aaa	gat	atg	ata	2160	
Gln	Leu	Ala	Ile	His	Tyr	Ser	Tyr	Asn	Asn	Asn	Thr	Lys	Asp	Met	Ile		
705						710					715				720		
tta	tta	aaa	cta	aaa	aat	tta	tca	aac	gat	gga	aca	aaa	gta	ata	ata	2208	
Leu	Leu	Lys	Leu	Lys	Asn	Leu	Ser	Asn	Asp	Gly	Thr	Lys	Val	Ile	Ile		
				725						730					735		
act	tgt	ctt	gac	gga	gac	gaa	ata	aca	aat	aga	tta	aat	gaa	aat	cct	2256	
Thr	Cys	Leu	Asp	Gly	Asp	Glu	Ile	Thr	Asn	Arg	Leu	Asn	Glu	Asn	Pro		
			740						745				750				
aat	tta	att	tat	aat	att	caa	ccc	gga	att	aca	tat	aaa	att	tct	aaa	2304	
Asn	Leu	Ile	Tyr	Asn	Ile	Gln	Pro	Gly	Ile	Thr	Tyr	Lys	Ile	Ser	Lys		

755	760	765	
att tca gat gat aaa ata tca gtt tta tat aat gct aca atg act gaa			2352
Ile Ser Asp Asp Lys Ile Ser Val Leu Tyr Asn Ala Thr Met Thr Glu			
770	775	780	
tgg tta gaa gaa tat ata ata aca gat aaa ata att gat gat ttt gct			2400
Trp Leu Glu Glu Tyr Ile Ile Thr Asp Lys Ile Ile Asp Asp Phe Ala			
785	790	795	800
atg tat aat ttt ata tta tca gat gtt tgt aaa ttt gat gat ata ttt			2448
Met Tyr Asn Phe Ile Leu Ser Asp Val Cys Lys Phe Asp Asp Ile Phe			
	805	810	815
aaa tat aat tct gat aaa tct gta gaa gtt tta tct aat ttt tta aga			2496
Lys Tyr Asn Ser Asp Lys Ser Val Glu Val Leu Ser Asn Phe Leu Arg			
	820	825	830
aaa tca act aaa aag ttt tat aat gat att aaa aat gat aaa aat ata			2544
Lys Ser Thr Lys Lys Phe Tyr Asn Asp Ile Lys Asn Asp Lys Asn Ile			
	835	840	845
tat aac aat gat gat att aaa aaa ata atg tcg tta ttt aaa gtt tat			2592
Tyr Asn Asn Asp Asp Ile Lys Lys Ile Met Ser Leu Phe Lys Val Tyr			
	850	855	860
act ttt gtt tat tca tct tgt aaa taa			2619
Thr Phe Val Tyr Ser Ser Cys Lys			
865	870		

<210> 47

<211> 3450

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(3450)

<223>

<400> 47

atg aga aat aat aaa gaa aag tat atg aat cat ttt acg gat ttt ata	48
Met Arg Asn Asn Lys Glu Lys Tyr Met Asn His Phe Thr Asp Phe Ile	
1	5
	10
	15

att cgt aat tta cca ttt aga aat tta att gat tcg atg aaa gaa aat	96
---	----

Ile Arg Asn Leu Pro Phe Arg Asn Leu Ile Asp Ser Met Lys Glu Asn	
20 25 30	
att att att aat aat gaa aca tat aaa ata gaa gaa tta ttt aaa tat	144
Ile Ile Ile Asn Asn Glu Thr Tyr Lys Ile Glu Glu Leu Phe Lys Tyr	
35 40 45	
att tat tat cat cca cta gat tta tta aca att aga gac att agt aat	192
Ile Tyr Tyr His Pro Leu Asp Leu Leu Thr Ile Arg Asp Ile Ser Asn	
50 55 60	
gca gat aga aaa gat gaa tat gtt aaa caa ttt gta aat aat tta tat	240
Ala Asp Arg Lys Asp Glu Tyr Val Lys Gln Phe Val Asn Asn Leu Tyr	
65 70 75 80	
ctt aga tat gca tat aac gaa atg gat ttt ata aaa aat aat ata aga	288
Leu Arg Tyr Ala Tyr Asn Glu Met Asp Phe Ile Lys Asn Asn Ile Arg	
85 90 95	
tat gac gat aaa gta tat tct att ata aac gaa att aat tat ttt cca	336
Tyr Asp Asp Lys Val Tyr Ser Ile Ile Asn Glu Ile Asn Tyr Phe Pro	
100 105 110	
gaa cat act tcg gaa ttt tta aaa tat aga tta tca cac tat gaa tca	384
Glu His Thr Ser Glu Phe Leu Lys Tyr Arg Leu Ser His Tyr Glu Ser	
115 120 125	
gaa tca aga atc aga gga gga aga gta gta act ttt agc ggt gtt cct	432
Glu Ser Arg Ile Arg Gly Gly Arg Val Val Thr Phe Ser Gly Val Pro	
130 135 140	
gat aat ggt tat ggt tat tta tta agt caa tca gac cct tca tct aag	480
Asp Asn Gly Tyr Gly Tyr Leu Leu Ser Gln Ser Asp Pro Ser Ser Lys	
145 150 155 160	
tat ata tgg gca ata gta gat aac tat tta atg att gat aat gaa gat	528
Tyr Ile Trp Ala Ile Val Asp Asn Tyr Leu Met Ile Asp Asn Glu Asp	
165 170 175	
aaa ttt gat ttt tat acc caa tat att cca ttt att aat tat ttt cta	576
Lys Phe Asp Phe Tyr Thr Gln Tyr Ile Pro Phe Ile Asn Tyr Phe Leu	
180 185 190	
aaa tta tat tat aat aac atc aca aaa aaa tat att att tta gat cct	624
Lys Leu Tyr Tyr Asn Asn Ile Thr Lys Lys Tyr Ile Ile Leu Asp Pro	
195 200 205	
agt aat cct gaa gaa aat aaa gat gta cct aac gct aat tta atc gac	672
Ser Asn Pro Glu Glu Asn Lys Asp Val Pro Asn Ala Asn Leu Ile Asp	
210 215 220	
gaa agt tta aaa aat aaa tat aat aat ttt aca aag aaa tta tca tat	720
Glu Ser Leu Lys Asn Lys Tyr Asn Asn Phe Thr Lys Lys Leu Ser Tyr	
225 230 235 240	
ttt gat ata tca aat agt aga tat aat tct ata aat gat gtg ggt gat	768
Phe Asp Ile Ser Asn Ser Arg Tyr Asn Ser Ile Asn Asp Val Gly Asp	

245	250	255	
ttt aat aat tat tta gat atc aat act aat aaa aat att att gaa aat			816
Phe Asn Asn Tyr Leu Asp Ile Asn Thr Asn Lys Asn Ile Ile Glu Asn			
260	265	270	
tat gat gta att att aat aat att ata aaa tca ata tat cta tat aac			864
Tyr Asp Val Ile Ile Asn Asn Ile Ile Lys Ser Ile Tyr Leu Tyr Asn			
275	280	285	
ata atg gat aca aat gta gaa gat ata tta aat ata ata atg aac gat			912
Ile Met Asp Thr Asn Val Glu Asp Ile Leu Asn Ile Ile Met Asn Asp			
290	295	300	
aca aat tat tta tta ttg aat gaa ata tat agt gaa tat tta cca aac			960
Thr Asn Tyr Leu Leu Leu Asn Glu Ile Tyr Ser Glu Tyr Leu Pro Asn			
305	310	315	320
tca agc aaa tta tat gtt tta gtg gga tta cgt cgc att ata tat gaa			1008
Ser Ser Lys Leu Tyr Val Leu Val Gly Leu Arg Arg Ile Ile Tyr Glu			
325	330	335	
aaa agc aaa caa aat aaa aat att agc aat tta tat atg tta gat tca			1056
Lys Ser Lys Gln Asn Lys Asn Ile Ser Asn Leu Tyr Met Leu Asp Ser			
340	345	350	
ttt gta agt ata tta tta tat tta tta gaa aga tat tac gaa aat gat			1104
Phe Val Ser Ile Leu Leu Tyr Leu Leu Glu Arg Tyr Tyr Glu Asn Asp			
355	360	365	
ata acc aca ctt aat gaa tct aaa aga tta ata aaa caa tat tat aaa			1152
Ile Thr Thr Leu Asn Glu Ser Lys Arg Leu Ile Lys Gln Tyr Tyr Lys			
370	375	380	
gat aat tta aat tca aaa aat agc gtt aat ttg gat tct ata aat att			1200
Asp Asn Leu Asn Ser Lys Asn Ser Val Asn Leu Asp Ser Ile Asn Ile			
385	390	395	400
att aaa gaa aat atc aat aat aat att att aat ata aca tta gat gaa			1248
Ile Lys Glu Asn Ile Asn Asn Asn Ile Ile Asn Ile Thr Leu Asp Glu			
405	410	415	
gat gaa caa tca aga tat aat tta ata ata gcc aca aac cca gaa ata			1296
Asp Glu Gln Ser Arg Tyr Asn Leu Ile Ile Ala Thr Asn Pro Glu Ile			
420	425	430	
ata gta aat tat gca agt aga aat tat ttt aac atc agt agt aac gaa			1344
Ile Val Asn Tyr Ala Ser Arg Asn Tyr Phe Asn Ile Ser Ser Asn Glu			
435	440	445	
gat aac aca tca aat gtg tat aaa aaa gca atg gca ttt ttc ata aat			1392
Asp Asn Thr Ser Asn Val Tyr Lys Lys Ala Met Ala Phe Phe Ile Asn			
450	455	460	
aat ttt att gaa aat aat ata act aac gaa aat ata ata aat aat tta			1440
Asn Phe Ile Glu Asn Asn Ile Thr Asn Glu Asn Ile Ile Asn Asn Leu			
465	470	475	480

tca caa gtt tat act caa aat aca gat ttt att aat att act tat gat	1488
Ser Gln Val Tyr Thr Gln Asn Thr Asp Phe Ile Asn Ile Thr Tyr Asp	
485 490 495	
gat cta aat aat tta aaa ata aaa tat att aat aat tat aat ata aat	1536
Asp Leu Asn Asn Leu Lys Ile Lys Tyr Ile Asn Asn Tyr Asn Ile Asn	
500 505 510	
tta gat att aaa aaa att att aat gac aat cta gaa ata att aga att	1584
Leu Asp Ile Lys Lys Ile Ile Asn Asp Asn Leu Glu Ile Ile Arg Ile	
515 520 525	
tat aaa gat aat gtt tta tat gac act aat att aaa atg aat tat aaa	1632
Tyr Lys Asp Asn Val Leu Tyr Asp Thr Asn Ile Lys Met Asn Tyr Lys	
530 535 540	
tca ttt ata tca cta tta ccc acc ata tac tat att att ttt tat aat	1680
Ser Phe Ile Ser Leu Leu Pro Thr Ile Tyr Tyr Ile Ile Phe Tyr Asn	
545 550 555 560	
caa cct ata aat aga aaa ata tat aga aaa gct ata att caa gaa cct	1728
Gln Pro Ile Asn Arg Lys Ile Tyr Arg Lys Ala Ile Ile Gln Glu Pro	
565 570 575	
cca att gaa gaa gag atc tca act gaa act aca aaa aga gct aga aga	1776
Pro Ile Glu Glu Glu Ile Ser Thr Glu Thr Thr Lys Arg Ala Arg Arg	
580 585 590	
gtg aga ttt aat cca ttt aat gtc gaa gaa aca ata ata gaa ccc aag	1824
Val Arg Phe Asn Pro Phe Asn Val Glu Glu Thr Ile Ile Glu Pro Lys	
595 600 605	
agt gtt ttt gtt aat aaa agt aaa aat tat tta tat gat aca tta ttt	1872
Ser Val Phe Val Asn Lys Ser Lys Asn Tyr Leu Tyr Asp Thr Leu Phe	
610 615 620	
tgg tct ggc ata tct ata gat gat ttt aat aaa ttt cca tta tac att	1920
Trp Ser Gly Ile Ser Ile Asp Asp Phe Asn Lys Phe Pro Leu Tyr Ile	
625 630 635 640	
aaa act att atc ttg gat agt tgt ctt att tta gga aga caa ata aac	1968
Lys Thr Ile Ile Leu Asp Ser Cys Leu Ile Leu Gly Arg Gln Ile Asn	
645 650 655	
gat gat ggg tca tct act tgc gtt tta tat cat gat att aat aat aac	2016
Asp Asp Gly Ser Ser Thr Cys Val Leu Tyr His Asp Ile Asn Asn Asn	
660 665 670	
gat gtt aca aaa ata tgt ata ata cct tat cct tat aca gca aac aga	2064
Asp Val Thr Lys Ile Cys Ile Ile Pro Tyr Pro Tyr Thr Ala Asn Arg	
675 680 685	
act atg tat gat gtt ttt aaa caa gtt tca gat aaa tta aga tct atg	2112
Thr Met Tyr Asp Val Phe Lys Gln Val Ser Asp Lys Leu Arg Ser Met	
690 695 700	

tac tca tat cct gta aat tat aat ata aat aat aat gaa aaa cat tta	2160
Tyr Ser Tyr Pro Val Asn Tyr Asn Ile Asn Asn Asn Glu Lys His Leu	
705 710 715 720	
aat tta tca aaa aaa gga aat tat aaa ttt atg aat aaa cta gca gaa	2208
Asn Leu Ser Lys Lys Gly Asn Tyr Lys Phe Met Asn Lys Leu Ala Glu	
725 730 735	
tgt aaa gat att aaa gat tta ata caa ttt tat gtt atg gta aga gat	2256
Cys Lys Asp Ile Lys Asp Leu Ile Gln Phe Tyr Val Met Val Arg Asp	
740 745 750	
aca gat cca ggt cat tct gaa ata tca ata cca cca aac caa gaa tta	2304
Thr Asp Pro Gly His Ser Glu Ile Ser Ile Pro Pro Asn Gln Glu Leu	
755 760 765	
tat tta gca ata act tta tta gat tta ttg gga ttt tct cct act tta	2352
Tyr Leu Ala Ile Thr Leu Leu Asp Leu Leu Gly Phe Ser Pro Thr Leu	
770 775 780	
tca aga aga aat act agt att ggt ttt tca tat tac att caa aca gat	2400
Ser Arg Arg Asn Thr Ser Ile Gly Phe Ser Tyr Tyr Ile Gln Thr Asp	
785 790 795 800	
aga caa gta tct gct cgt aat ttg ata tat ata tta tca aga aac tac	2448
Arg Gln Val Ser Ala Arg Asn Leu Ile Tyr Ile Leu Ser Arg Asn Tyr	
805 810 815	
cca gat atg gta aaa agt aag gaa tta tca gat gta gta att aat ata	2496
Pro Asp Met Val Lys Ser Lys Glu Leu Ser Asp Val Val Ile Asn Ile	
820 825 830	
ttg tcg cca ata ctt gca tat tta aga tat gta tta aat tat tat aga	2544
Leu Ser Pro Ile Leu Ala Tyr Leu Arg Tyr Val Leu Asn Tyr Tyr Arg	
835 840 845	
aca aat aat aca aca tta aca gct gga tct aat aat gca ggt cat gat	2592
Thr Asn Asn Thr Thr Leu Thr Ala Gly Ser Asn Asn Ala Gly His Asp	
850 855 860	
tgt tgt att cct att aaa tca aat cct tta gat tta ctt att aat ata	2640
Cys Cys Ile Pro Ile Lys Ser Asn Pro Leu Asp Leu Leu Ile Asn Ile	
865 870 875 880	
gat aca tct ttt act gat tcc gac aat ata tta gat ata atg aat aga	2688
Asp Thr Ser Phe Thr Asp Ser Asp Asn Ile Leu Asp Ile Met Asn Arg	
885 890 895	
gat atg ttt aat ttg gat aat gat ata ttt aga caa gta ata caa aat	2736
Asp Met Phe Asn Leu Asp Asn Asp Ile Phe Arg Gln Val Ile Gln Asn	
900 905 910	
aat att tat agc gct ggt agc gtt gat att gtc gat att ata act gat	2784
Asn Ile Tyr Ser Ala Gly Ser Val Asp Ile Val Asp Ile Ile Thr Asp	
915 920 925	
aat att ccc caa aac att tat atg aaa aca aac ata att gat aaa atg	2832

Asn Ile Pro Gln Asn Ile Tyr Met Lys Thr Asn Ile Ile Asp Lys Met	
930 935 940	
tat gat aaa att ttt gct ggt gaa agt att agc gat ata ttg gat ata	2880
Tyr Asp Lys Ile Phe Ala Gly Glu Ser Ile Ser Asp Ile Leu Asp Ile	
945 950 955 960	
cag ttt gat gaa gat att aat gat aat ttt aat tac aat gat gta aat	2928
Gln Phe Asp Glu Asp Ile Asn Asp Asn Phe Asn Tyr Asn Asp Val Asn	
965 970 975	
atg att act aat gat tta atg aaa aaa cta aga aaa tta tta aaa aaa	2976
Met Ile Thr Asn Asp Leu Met Lys Lys Leu Arg Lys Leu Leu Lys Lys	
980 985 990	
aca act att aat aat tta gaa gac aat gct atg ata tta aag tca caa	3024
Thr Thr Ile Asn Asn Leu Glu Asp Asn Ala Met Ile Leu Lys Ser Gln	
995 1000 1005	
atg tta tca tct att aat aat gtt ttt aat cgt tat tct tgt atg	3069
Met Leu Ser Ser Ile Asn Asn Val Phe Asn Arg Tyr Ser Cys Met	
1010 1015 1020	
gaa aaa ata cca aca caa tat ctt ata aat att aga aca tta tta	3114
Glu Lys Ile Pro Thr Gln Tyr Leu Ile Asn Ile Arg Thr Leu Leu	
1025 1030 1035	
aaa caa tat agt aat gaa aat ata aaa att gac gaa gat tta aaa	3159
Lys Gln Tyr Ser Asn Glu Asn Ile Lys Ile Asp Glu Asp Leu Lys	
1040 1045 1050	
aat aat atc caa aca ata att agt aat atc cat agt aat act aaa	3204
Asn Asn Ile Gln Thr Ile Ile Ser Asn Ile His Ser Asn Thr Lys	
1055 1060 1065	
gat ata att aaa att att acc act tta agt gct ggt att gat tta	3249
Asp Ile Ile Lys Ile Ile Thr Thr Leu Ser Ala Gly Ile Asp Leu	
1070 1075 1080	
gtt aga gca tta aaa aga tct aat gca aat gta gaa aat aaa aca	3294
Val Arg Ala Leu Lys Arg Ser Asn Ala Asn Val Glu Asn Lys Thr	
1085 1090 1095	
ata aat ctt gaa ttt cta aaa aaa tta tgt gat att tgt aaa gat	3339
Ile Asn Leu Glu Phe Leu Lys Lys Leu Cys Asp Ile Cys Lys Asp	
1100 1105 1110	
agt ttt tat aaa tat aat aga aat aat gat ata gta tat aaa aat	3384
Ser Phe Tyr Lys Tyr Asn Arg Asn Asn Asp Ile Val Tyr Lys Asn	
1115 1120 1125	
tta cta aaa gat gta ttt aat aat gat aat gaa att aat aat gat	3429
Leu Leu Lys Asp Val Phe Asn Asn Asp Asn Glu Ile Asn Asn Asp	
1130 1135 1140	
agt gtg ttt gat aca tgt taa	3450
Ser Val Phe Asp Thr Cys	

1145

<210> 48

<211> 2007

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2007)

<223>

<400> 48

atg	aat	gtt	ttt	gaa	atg	gat	agt	ata	aat	ata	tct	aat	cgt	aat	tat	48
Met	Asn	Val	Phe	Glu	Met	Asp	Ser	Ile	Asn	Ile	Ser	Asn	Arg	Asn	Tyr	
1				5				10				15				

tta	ata	gca	ggg	gta	aca	tct	gat	aat	att	tgt	aat	tgt	gtt	aat	gat	96
Leu	Ile	Ala	Gly	Val	Thr	Ser	Asp	Asn	Ile	Cys	Asn	Cys	Val	Asn	Asp	
			20					25				30				

agt	gct	atg	gat	gat	tat	tta	ttt	gat	aca	tta	tct	gta	gat	aga	tta	144
Ser	Ala	Met	Asp	Asp	Tyr	Leu	Phe	Asp	Thr	Leu	Ser	Val	Asp	Arg	Leu	
		35					40					45				

gat	ggc	gga	tat	ata	aaa	cac	gaa	tgt	ggg	ata	gaa	tgt	ggg	tgt	ttt	192
Asp	Gly	Gly	Tyr	Ile	Lys	His	Glu	Cys	Gly	Ile	Glu	Cys	Gly	Cys	Phe	
	50					55				60						

aat	ggg	aaa	tta	atg	gct	agt	atg	gcg	aca	gaa	atg	tca	aga	gat	aat	240
Asn	Gly	Lys	Leu	Met	Ala	Ser	Met	Ala	Thr	Glu	Met	Ser	Arg	Asp	Asn	
65					70				75					80		

tta	ata	gca	tcg	tgt	tct	aaa	agt	gca	gga	gct	tct	aat	gta	aaa	tca	288
Leu	Ile	Ala	Ser	Cys	Ser	Lys	Ser	Ala	Gly	Ala	Ser	Asn	Val	Lys	Ser	
			85					90					95			

tct	aat	aat	caa	aat	caa	aaa	aaa	aga	aaa	tca	gaa	tct	ggg	aat	aaa	336
Ser	Asn	Asn	Gln	Asn	Gln	Lys	Lys	Arg	Lys	Ser	Glu	Ser	Gly	Asn	Lys	
			100					105					110			

att	caa	aaa	caa	tta	gat	att	atg	aac	aca	aaa	gaa	gat	cat	att	aag	384
Ile	Gln	Lys	Gln	Leu	Asp	Ile	Met	Asn	Thr	Lys	Glu	Asp	His	Ile	Lys	
		115					120					125				

aaa	att	gct	gaa	tat	gta	gct	aat	aat	tta	cca	aaa	tca	cct	tta	aca	432
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Lys	Ile	Ala	Glu	Tyr	Val	Ala	Asn	Asn	Leu	Pro	Lys	Ser	Pro	Leu	Thr		
130						135					140						
tat	aca	gtt	cac	gac	att	aat	aga	tta	att	atc	aca	tct	cct	ttt	aag	480	
Tyr	Thr	Val	His	Asp	Ile	Asn	Arg	Leu	Ile	Ile	Thr	Ser	Pro	Phe	Lys		
145					150				155						160		
gat	gtt	att	tta	aac	gaa	aat	gat	atg	aaa	tct	ata	atc	gga	ttg	gct	528	
Asp	Val	Ile	Leu	Asn	Glu	Asn	Asp	Met	Lys	Ser	Ile	Ile	Gly	Leu	Ala		
				165					170					175			
gca	gct	ttt	tat	aaa	aat	aaa	aca	ata	aat	cat	tca	tta	tta	tca	act	576	
Ala	Ala	Phe	Tyr	Lys	Asn	Lys	Thr	Ile	Asn	His	Ser	Leu	Leu	Ser	Thr		
			180					185					190				
att	aat	att	aat	aca	aat	gat	ctt	att	caa	caa	tta	aga	caa	gta	tat	624	
Ile	Asn	Ile	Asn	Thr	Asn	Asp	Leu	Ile	Gln	Gln	Leu	Arg	Gln	Val	Tyr		
		195					200					205					
aat	tta	tca	aca	tta	gta	gat	tat	gat	tca	ttt	tta	aat	aat	tta	aaa	672	
Asn	Leu	Ser	Thr	Leu	Val	Asp	Tyr	Asp	Ser	Phe	Leu	Asn	Asn	Leu	Lys		
	210					215					220						
gta	gcc	agt	gtg	gaa	tat	act	gat	att	gca	gat	tgt	aat	gat	tac	att	720	
Val	Ala	Ser	Val	Glu	Tyr	Thr	Asp	Ile	Ala	Asp	Cys	Asn	Asp	Tyr	Ile		
225					230				235						240		
aaa	tat	gtg	cca	gac	gaa	cct	aat	gtt	cca	tca	ata	tta	ttt	gct	tta	768	
Lys	Tyr	Val	Pro	Asp	Glu	Pro	Asn	Val	Pro	Ser	Ile	Leu	Phe	Ala	Leu		
				245					250					255			
ttt	tct	aca	aga	ata	cct	gta	tta	ttt	gat	att	gtt	gta	aat	caa	gat	816	
Phe	Ser	Thr	Arg	Ile	Pro	Val	Leu	Phe	Asp	Ile	Val	Val	Asn	Gln	Asp		
			260					265					270				
tta	ttt	aaa	tta	caa	caa	gag	tta	cag	aca	gat	gat	tat	agc	gca	tat	864	
Leu	Phe	Lys	Leu	Gln	Gln	Glu	Leu	Gln	Thr	Asp	Asp	Tyr	Ser	Ala	Tyr		
		275					280					285					
aaa	aat	ata	tat	cta	ttg	ctt	ttt	aga	tta	tct	gat	aga	gaa	cca	tac	912	
Lys	Asn	Ile	Tyr	Leu	Leu	Leu	Phe	Arg	Leu	Ser	Asp	Arg	Glu	Pro	Tyr		
		290				295					300						
tat	tca	aat	caa	tct	gga	gga	ctt	agt	aat	aaa	att	gat	gtt	tat	act	960	
Tyr	Ser	Asn	Gln	Ser	Gly	Gly	Leu	Ser	Asn	Lys	Ile	Asp	Val	Tyr	Thr		
305					310					315					320		
gaa	tta	agt	cgt	ata	tta	tta	tct	atg	tcg	att	aaa	aga	tta	ata	tta	1008	
Glu	Leu	Ser	Arg	Ile	Leu	Leu	Ser	Met	Ser	Ile	Lys	Arg	Leu	Ile	Leu		
				325					330					335			
aaa	att	att	aaa	ggc	aca	gtt	aca	gga	aac	aca	gta	gct	cct	ata	atg	1056	
Lys	Ile	Ile	Lys	Gly	Thr	Val	Thr	Gly	Asn	Thr	Val	Ala	Pro	Ile	Met		
			340					345					350				
aat	ata	ttt	aaa	aat	tta	tat	att	aaa	aat	gtc	aga	tct	tct	caa	gaa	1104	
Asn	Ile	Phe	Lys	Asn	Leu	Tyr	Ile	Lys	Asn	Val	Arg	Ser	Ser	Gln	Glu		

355	360	365	
gct tta tta tca gca att tta aaa ata tgg tca tat gct cca aca att			1152
Ala Leu Leu Ser Ala Ile Leu Lys Ile Trp Ser Tyr Ala Pro Thr Ile			
370	375	380	
gtt ctg aaa aat ata tca tct gat ttt aga aca gaa act gta ttt ttt			1200
Val Leu Lys Asn Ile Ser Ser Asp Phe Arg Thr Glu Thr Val Phe Phe			
385	390	395	400
gtt gaa tat gaa ata tct gaa tac aat caa ttt gaa aat caa aat ata			1248
Val Glu Tyr Glu Ile Ser Glu Tyr Asn Gln Phe Glu Asn Gln Asn Ile			
405	410	415	
aaa ttc act caa gaa tta atg aaa tat att tat tac gat cct att gtt			1296
Lys Phe Thr Gln Glu Leu Met Lys Tyr Ile Tyr Tyr Asp Pro Ile Val			
420	425	430	
aat aaa gtt att ttg tct cct aaa tat att ttg gat tcg ata ggc gga			1344
Asn Lys Val Ile Leu Ser Pro Lys Tyr Ile Leu Asp Ser Ile Gly Gly			
435	440	445	
aac aca ggt atg caa agt ata aca tat tgt aat agt ggt ttt aga agt			1392
Asn Thr Gly Met Gln Ser Ile Thr Tyr Cys Asn Ser Gly Phe Arg Ser			
450	455	460	
att aat cct atg aca aat gta gct tta aaa tca aca ggt atg ttc att			1440
Ile Asn Pro Met Thr Asn Val Ala Leu Lys Ser Thr Gly Met Phe Ile			
465	470	475	480
tta tct ata cct aga tta att aaa caa tca tat tct tat ggt tta cct			1488
Leu Ser Ile Pro Arg Leu Ile Lys Gln Ser Tyr Ser Tyr Gly Leu Pro			
485	490	495	
gac gaa ttt tct gat aga tta tta act aaa tat gta gat tta gat caa			1536
Asp Glu Phe Ser Asp Arg Leu Leu Thr Lys Tyr Val Asp Leu Asp Gln			
500	505	510	
aat att acc att ggt tgt aat atg ttt caa tta aga gcg gcc gtt tgt			1584
Asn Ile Thr Ile Gly Cys Asn Met Phe Gln Leu Arg Ala Ala Val Cys			
515	520	525	
tac aaa ata tca aaa tat gtt gat tta gat aca tgt ata cag aat cct			1632
Tyr Lys Ile Ser Lys Tyr Val Asp Leu Asp Thr Cys Ile Gln Asn Pro			
530	535	540	
ata tca tta gga aca gtt gct att gta aaa aca caa aaa ggg tgg att			1680
Ile Ser Leu Gly Thr Val Ala Ile Val Lys Thr Gln Lys Gly Trp Ile			
545	550	555	560
aga tat aat cca gat tta atg tat tct tgt aac gaa aag aaa gat tta			1728
Arg Tyr Asn Pro Asp Leu Met Tyr Ser Cys Asn Glu Lys Lys Asp Leu			
565	570	575	
tta gat aaa ata cta aga aat gaa tat aaa aaa tca ttg aat tta aat			1776
Leu Asp Lys Ile Leu Arg Asn Glu Tyr Lys Lys Ser Leu Asn Leu Asn			
580	585	590	

```

aat tat gaa gtt aat caa tat tta gat aaa gat tac gaa gaa tgg aaa      1824
Asn Tyr Glu Val Asn Gln Tyr Leu Asp Lys Asp Tyr Glu Glu Trp Lys
      595                      600                      605

agt act ttt tca tct att aat aat att atc gat aaa ttt gaa aaa ggt      1872
Ser Thr Phe Ser Ser Ile Asn Asn Ile Ile Asp Lys Phe Glu Lys Gly
      610                      615                      620

tac gta agt aca gat tca tta att att caa gag gca gaa gcc atc gat      1920
Tyr Val Ser Thr Asp Ser Leu Ile Ile Gln Glu Ala Glu Ala Ile Asp
      625                      630                      635                      640

ata att agt aga tat gga act att ata ata tac gca caa gaa tat act      1968
Ile Ile Ser Arg Tyr Gly Thr Ile Ile Ile Tyr Ala Gln Glu Tyr Thr
      645                      650                      655

aat ggt gta gat atg tta cca ctg aga aga tat tat taa      2007
Asn Gly Val Asp Met Leu Pro Leu Arg Arg Tyr Tyr
      660                      665

```

<210> 49

<211> 723

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(723)

<223>

<400> 49

```

atg tcc gaa ttc gat tat gat aaa ctg cgt gct aaa cca ttt aat atg      48
Met Ser Glu Phe Asp Tyr Asp Lys Leu Arg Ala Lys Pro Phe Asn Met
1          5          10          15

gca att ata gga aaa aca gga tca ggt aaa act aca ttt tta aag aat      96
Ala Ile Ile Gly Lys Thr Gly Ser Gly Lys Thr Thr Phe Leu Lys Asn
      20          25          30

tta tta tta aaa att ggt tac gga ttt tat aaa ttt ata tat tta att      144
Leu Leu Leu Lys Ile Gly Tyr Gly Phe Tyr Lys Phe Ile Tyr Leu Ile
      35          40          45

act agt tct gaa gtt aac ttt aaa tca aat gaa tat ttt aaa ttt att      192
Thr Ser Ser Glu Val Asn Phe Lys Ser Asn Glu Tyr Phe Lys Phe Ile

```

50	55	60	
tat ccc aat cat gtt ttt tat ctt tat tcg aat aac aaa gac aag gat			240
Tyr Pro Asn His Val Phe Tyr Leu Tyr Ser Asn Asn Lys Asp Lys Asp			
65	70	75	80
ggt aaa tat tta tta caa gca tat tta gaa aaa att aaa aat ttt agt			288
Val Lys Tyr Leu Leu Gln Ala Tyr Leu Glu Lys Ile Lys Asn Phe Ser			
	85	90	95
ttt gaa atg aat caa aag tgt gaa aat ttt aga aca tta gtt att tat			336
Phe Glu Met Asn Gln Lys Cys Glu Asn Phe Arg Thr Leu Val Ile Tyr			
	100	105	110
gat gat att ggc aaa gac aca aaa gat aaa tta agt aat ttt aca aat			384
Asp Asp Ile Gly Lys Asp Thr Lys Asp Lys Leu Ser Asn Phe Thr Asn			
	115	120	125
gtg tgc aga cat tcg tta gta tca aat att ttt cta gtt cat aga tta			432
Val Cys Arg His Ser Leu Val Ser Asn Ile Phe Leu Val His Arg Leu			
	130	135	140
gaa cat tta gat aca act aca aga gat agt tta tca tat cat gtt ata			480
Glu His Leu Asp Thr Thr Thr Arg Asp Ser Leu Ser Tyr His Val Ile			
	145	150	155
aat tcc gaa tca gaa aat atg gat tta ata cct tgt aat aaa aat cta			528
Asn Ser Glu Ser Glu Asn Met Asp Leu Ile Pro Cys Asn Lys Asn Leu			
	165	170	175
aga aat tca tta ctt gca tct gtg ata aat att ttt aaa gat cgc gaa			576
Arg Asn Ser Leu Leu Ala Ser Val Ile Asn Ile Phe Lys Asp Arg Glu			
	180	185	190
caa tca aaa tat tat ata tat tgt ata ata tat gat tct gta tct tat			624
Gln Ser Lys Tyr Tyr Ile Tyr Cys Ile Ile Tyr Asp Ser Val Ser Tyr			
	195	200	205
tct tgt tta ata tca gac gat gat tta gaa aat ata aaa aat gaa gat			672
Ser Cys Leu Ile Ser Asp Asp Asp Leu Glu Asn Ile Lys Asn Glu Asp			
	210	215	220
aaa tat gta ttt tat act gat tcc gtg att aaa tct cat ata cta aat			720
Lys Tyr Val Phe Tyr Thr Asp Ser Val Ile Lys Ser His Ile Leu Asn			
	225	230	235
taa			723

<210> 50

<211> 1407

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1407)

<223>

<400> 50

atg agt aat att gaa ata tat gat atg ttt gaa ggt gat aag gaa gta	48
Met Ser Asn Ile Glu Ile Tyr Asp Met Phe Glu Gly Asp Lys Glu Val	
1 5 10 15	
cta ttt ata gct ggt tca cat ata aat gaa tta aaa gct gat aaa aat	96
Leu Phe Ile Ala Gly Ser His Ile Asn Glu Leu Lys Ala Asp Lys Asn	
20 25 30	
tta tgt agt gaa gtt ata aat aat gtt gtt aat gat ttt tcg ttt tct	144
Leu Cys Ser Glu Val Ile Asn Asn Val Val Asn Asp Phe Ser Phe Ser	
35 40 45	
aac att gaa aaa aac ttt aaa aat ata aaa aaa att aat aaa ttt aaa	192
Asn Ile Glu Lys Asn Phe Lys Asn Ile Lys Lys Ile Asn Lys Phe Lys	
50 55 60	
tat aaa att att aat gat att aca aat gta act gaa aca gat tat ttt	240
Tyr Lys Ile Ile Asn Asp Ile Thr Asn Val Thr Glu Thr Asp Tyr Phe	
65 70 75 80	
aaa cca tat ttt aaa atg aaa cca tat atg gct aat caa tat ata tat	288
Lys Pro Tyr Phe Lys Met Lys Pro Tyr Met Ala Asn Gln Tyr Ile Tyr	
85 90 95	
cat ata cat act gga gga tat ggc atg act gtt cgt att aat gaa agt	336
His Ile His Thr Gly Gly Tyr Gly Met Thr Val Arg Ile Asn Glu Ser	
100 105 110	
ttt tgt ttt aaa ata tca tta aat cca act aat aat cag ata cat gaa	384
Phe Cys Phe Lys Ile Ser Leu Asn Pro Thr Asn Asn Gln Ile His Glu	
115 120 125	
ttt gta ata ccc agg atg tta tct agt att ata tct tat tca aac gca	432
Phe Val Ile Pro Arg Met Leu Ser Ser Ile Ile Ser Tyr Ser Asn Ala	
130 135 140	
gac aaa tta ata tta tta cca tat aca tta ata aag aat ata aat ttc	480
Asp Lys Leu Ile Leu Leu Pro Tyr Thr Leu Ile Lys Asn Ile Asn Phe	
145 150 155 160	
aat gga ttg ata tat ata ata agt atg cat aat ata att tta tta tta	528
Asn Gly Leu Ile Tyr Ile Ile Ser Met His Asn Ile Ile Leu Leu Leu	
165 170 175	

att aat ttt ata tta gat aaa aat tat agt aat att gat ata tat aat Ile Asn Phe Ile Leu Asp Lys Asn Tyr Ser Asn Ile Asp Ile Tyr Asn 180 185 190	576
aca tat tta gat ttt aat aaa atg aat agt att tat aga tct tta aca Thr Tyr Leu Asp Phe Asn Lys Met Asn Ser Ile Tyr Arg Ser Leu Thr 195 200 205	624
aaa gat gaa gaa tta tta tat aaa tgt ttt act tat ttt tat aaa aaa Lys Asp Glu Glu Leu Leu Tyr Lys Cys Phe Thr Tyr Phe Tyr Lys Lys 210 215 220	672
tat ttt aaa aat att ttt aat gtt ata atg att aat aat tat tca tca Tyr Phe Lys Asn Ile Phe Asn Val Ile Met Ile Asn Asn Tyr Ser Ser 225 230 235 240	720
ata att tat tat tta agt act att aaa gat tta tta act aat aaa gat Ile Ile Tyr Tyr Leu Ser Thr Ile Lys Asp Leu Leu Thr Asn Lys Asp 245 250 255	768
tat aaa gac aaa ata tat gga tct att ata ata atg cct tta gct ata Tyr Lys Asp Lys Ile Tyr Gly Ser Ile Ile Ile Met Pro Leu Ala Ile 260 265 270	816
tgt gcg tcg aat gag ttg aaa ctt tca ata tat aat gac aca tat gtt Cys Ala Ser Asn Glu Leu Lys Leu Ser Ile Tyr Asn Asp Thr Tyr Val 275 280 285	864
cca gat atg ata aat gga aat att gca tat gaa gta aat aat aga tat Pro Asp Met Ile Asn Gly Asn Ile Ala Tyr Glu Val Asn Asn Arg Tyr 290 295 300	912
ata aga cat att gta tta gtt gtt tta tta tta ata tgt ata cca aac Ile Arg His Ile Val Leu Val Val Leu Leu Leu Ile Cys Ile Pro Asn 305 310 315 320	960
aaa gat aga atg ata ttt ttt cac aat gat ata aaa ccc aat aat ata Lys Asp Arg Met Ile Phe Phe His Asn Asp Ile Lys Pro Asn Asn Ile 325 330 335	1008
tta gtt ttt cct aat gta aat aaa gaa aaa tta ata ata aaa tat aac Leu Val Phe Pro Asn Val Asn Lys Glu Lys Leu Ile Ile Lys Tyr Asn 340 345 350	1056
aat agg aat ata ata ttt aaa gaa tta tat ata tta aaa tta aca gat Asn Arg Asn Ile Ile Phe Lys Glu Leu Tyr Ile Leu Lys Leu Thr Asp 355 360 365	1104
ttt gat tta tct aga ata gaa gga tta gat aac aat aga att aaa aat Phe Asp Leu Ser Arg Ile Glu Gly Leu Asp Asn Asn Arg Ile Lys Asn 370 375 380	1152
tct cca ata tta tta tat aat aac ata att aac gat ata tat tat ttt Ser Pro Ile Leu Leu Tyr Asn Asn Ile Ile Asn Asp Ile Tyr Tyr Phe 385 390 395 400	1200
ttt tat aga tta aaa tat gat ttt ttt tta aat tta aaa aca ata gat	1248

Phe Tyr Arg Leu Lys Tyr Asp Phe Phe Leu Asn Leu Lys Thr Ile Asp	
405 410 415	
cca gag tta aac gaa cat ata gaa aat aaa ttt tta tta aaa aaa tat	1296
Pro Glu Leu Asn Glu His Ile Glu Asn Lys Phe Leu Leu Lys Lys Tyr	
420 425 430	
atg aaa gat act ata aat aat cat aat tac aaa gga aat gaa aaa atg	1344
Met Lys Asp Thr Ile Asn Asn His Asn Tyr Lys Gly Asn Glu Lys Met	
435 440 445	
tct ata agt ttt gtt aat gat ttc ata ttt aat tct gga tta ttt aat	1392
Ser Ile Ser Phe Val Asn Asp Phe Ile Phe Asn Ser Gly Leu Phe Asn	
450 455 460	
tat tgg tta gat taa	1407
Tyr Trp Leu Asp	
465	

<210> 51

<211> 714

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(714)

<223>

<400> 51	
atg tcg gac gtc gat tat gat gat gat caa ttg gag cct agc gat gaa	48
Met Ser Asp Val Asp Tyr Asp Asp Asp Gln Leu Glu Pro Ser Asp Glu	
1 5 10 15	
gaa gat atg gat gat cta gtg tat agt gaa gtt tgt gca aat gat gaa	96
Glu Asp Met Asp Asp Leu Val Tyr Ser Glu Val Cys Ala Asn Asp Glu	
20 25 30	
tct gac gaa tct gaa ata aat tta tta gat gaa ata att aac gaa gaa	144
Ser Asp Glu Ser Glu Ile Asn Leu Leu Asp Glu Ile Ile Asn Glu Glu	
35 40 45	
caa gaa atg gaa ata att aaa aaa ata aaa acc aaa gat aaa att aaa	192
Gln Glu Met Glu Ile Ile Lys Lys Ile Lys Thr Lys Asp Lys Ile Lys	
50 55 60	

tat ttt aaa ggt aaa att ata gat atg aat aaa ata aat aaa gca aaa	240
Tyr Phe Lys Gly Lys Ile Ile Asp Met Asn Lys Ile Asn Lys Ala Lys	
65 70 75 80	
gaa aaa tat tta tat aat ata aaa ttt aat gaa tta ttg tct ata ttt	288
Glu Lys Tyr Leu Tyr Asn Ile Lys Phe Asn Glu Leu Leu Ser Ile Phe	
85 90 95	
cta aat tat act aat att tta caa agt ggt gga ttg cca tta tta gat	336
Leu Asn Tyr Thr Asn Ile Leu Gln Ser Gly Gly Leu Pro Leu Leu Asp	
100 105 110	
gaa att aaa tta aaa aat aat tat aat att gaa tta ttt tca aat tct	384
Glu Ile Lys Leu Lys Asn Asn Tyr Asn Ile Glu Leu Phe Ser Asn Ser	
115 120 125	
tct aca aca cca gaa aca gca gca atg ata atg tta ata att atg aat	432
Ser Thr Thr Pro Glu Thr Ala Ala Met Ile Met Leu Ile Ile Met Asn	
130 135 140	
ata cct atg tgt gtt aaa aaa aac aat aaa ata tat aat aga gaa gta	480
Ile Pro Met Cys Val Lys Lys Asn Asn Lys Ile Tyr Asn Arg Glu Val	
145 150 155 160	
tta aat ata gat aaa ttg aat atc gat tat ata aat tgt tat tac caa	528
Leu Asn Ile Asp Lys Leu Asn Ile Asp Tyr Ile Asn Cys Tyr Tyr Gln	
165 170 175	
aat gta aaa aat atg tta cga tgt gtt aca tat aat tct aat aat aaa	576
Asn Val Lys Asn Met Leu Arg Cys Val Thr Tyr Asn Ser Asn Asn Lys	
180 185 190	
ttt gat ttt aat aaa ttt aaa att tta ttt ccg tta ttt ata gaa tat	624
Phe Asp Phe Asn Lys Phe Lys Ile Leu Phe Pro Leu Phe Ile Glu Tyr	
195 200 205	
ata aat cgt gat gaa att agt aat gaa gaa tta gat gaa att aaa aat	672
Ile Asn Arg Asp Glu Ile Ser Asn Glu Glu Leu Asp Glu Ile Lys Asn	
210 215 220	
gtt aaa aga att ata aca aat tat gat tat gaa aat tta taa	714
Val Lys Arg Ile Ile Thr Asn Tyr Asp Tyr Glu Asn Leu	
225 230 235	

<210> 52

<211> 246

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (246)

<223>

<400> 52

atg	caa	ata	ttc	att	aaa	aca	tta	aca	ggt	aaa	aca	atc	aca	cta	gaa	48
Met	Gln	Ile	Phe	Ile	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	
1				5					10					15		

gta	gaa	agt	tca	gat	act	ata	tca	aat	att	aaa	aat	aaa	ata	caa	gat	96
Val	Glu	Ser	Ser	Asp	Thr	Ile	Ser	Asn	Ile	Lys	Asn	Lys	Ile	Gln	Asp	
			20					25					30			

aaa	gaa	gga	att	cct	ccg	gat	cag	caa	aga	ttg	att	ttt	gct	gga	aaa	144
Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	
		35					40					45				

caa	tta	gat	gat	agc	aga	act	ctt	tca	gat	tat	aat	ata	tct	aaa	gaa	192
Gln	Leu	Asp	Asp	Ser	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Ser	Lys	Glu	
	50					55					60					

tct	act	tta	cat	ttg	gta	tta	aga	ctt	aga	ggt	gga	acg	aat	ata	aat	240
Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Thr	Asn	Ile	Asn	
65				70						75				80		

tat	tag															246
Tyr																

<210> 53

<211> 2013

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (2013)

<223>

<400> 53

atg	aat	aaa	gtt	ata	tta	gat	gat	ttg	aga	aat	gat	aat	att	ccg	aac	48
Met	Asn	Lys	Val	Ile	Leu	Asp	Asp	Leu	Arg	Asn	Asp	Asn	Ile	Pro	Asn	

1	5				10				15				
aat att gct caa att ttg cct cat cag tta gca aca tta gat ttt tta													96
Asn Ile Ala Gln Ile Leu Pro His Gln Leu Ala Thr Leu Asp Phe Leu													
	20				25				30				
tat caa aaa tgt ata aat aat gct aat agt gtt tta ttg ttt cat aaa													144
Tyr Gln Lys Cys Ile Asn Asn Ala Asn Ser Val Leu Leu Phe His Lys													
	35				40				45				
atg ggt tct ggt aaa aca att att tct ctt ttg ttt agc ata tta ata													192
Met Gly Ser Gly Lys Thr Ile Ile Ser Leu Leu Phe Ser Ile Leu Ile													
	50				55				60				
tgt aat att aaa aaa gtt ata ata gta ttg cct agt tat agt ata tta													240
Cys Asn Ile Lys Lys Val Ile Ile Val Leu Pro Ser Tyr Ser Ile Leu													
	65				70				75				80
gaa atg tgg aaa caa aat tta tat aga tct tta att tta ctt cct aat													288
Glu Met Trp Lys Gln Asn Leu Tyr Arg Ser Leu Ile Leu Leu Pro Asn													
	85				90				95				
aaa gaa tat aat tta caa aat att gaa ttt aca act aga aca aaa tta													336
Lys Glu Tyr Asn Leu Gln Asn Ile Glu Phe Thr Thr Arg Thr Lys Leu													
	100				105				110				
aac gaa gat ata atg tta ata ggt aaa act gat ata ata aat gaa aaa													384
Asn Glu Asp Ile Met Leu Ile Gly Lys Thr Asp Ile Ile Asn Glu Lys													
	115				120				125				
tta aaa aat tat aac gat tat att atg ata ata gat gaa gca cat aat													432
Leu Lys Asn Tyr Asn Asp Tyr Ile Met Ile Ile Asp Glu Ala His Asn													
	130				135				140				
ttt ttt gga aat atg aca ggt agt gta tta tct act cta aga aaa aat													480
Phe Phe Gly Asn Met Thr Gly Ser Val Leu Ser Thr Leu Arg Lys Asn													
	145				150				155				160
aca aat ata ata tat gtt tta ttg aca ggt agt ccg ata aca aat act													528
Thr Asn Ile Ile Tyr Val Leu Leu Thr Gly Ser Pro Ile Thr Asn Thr													
	165				170				175				
gtt tcg aca ata aaa gat att gtg gaa tta tta act agg gaa aca ttt													576
Val Ser Thr Ile Lys Asp Ile Val Glu Leu Leu Thr Arg Glu Thr Phe													
	180				185				190				
gat gaa aat aag tat att aaa ata ggt gga aat cgt gtt ttt gaa aaa													624
Asp Glu Asn Lys Tyr Ile Lys Ile Gly Gly Asn Arg Val Phe Glu Lys													
	195				200				205				
agt ata aat aac gaa ggt att gca ttt tta aat aaa aat cta aag ggt													672
Ser Ile Asn Asn Glu Gly Ile Ala Phe Leu Asn Lys Asn Leu Lys Gly													
	210				215				220				
tta ata tca tat tat gat gaa gag agg aaa gat gtt cct gaa gta aaa													720
Leu Ile Ser Tyr Tyr Asp Glu Glu Arg Lys Asp Val Pro Glu Val Lys													
	225				230				235				240

tac aga ggt aaa aaa ata ttt cta tgt cct ttg aca tta tgt cca atg	768
Tyr Arg Gly Lys Lys Ile Phe Leu Cys Pro Leu Thr Leu Cys Pro Met	
245 250 255	
tct aaa tta cat gaa gaa aat tat tat gaa gta gct aga aat act aaa	816
Ser Lys Leu His Glu Glu Asn Tyr Tyr Glu Val Ala Arg Asn Thr Lys	
260 265 270	
aat gat atg ttt gtt aaa tta tta atg agt gtt tcg ttg gtt gca tta	864
Asn Asp Met Phe Val Lys Leu Leu Met Ser Val Ser Leu Val Ala Leu	
275 280 285	
gga tct ata tca aat tat gaa aat ttt tca caa ttt atg gag aca gat	912
Gly Ser Ile Ser Asn Tyr Glu Asn Phe Ser Gln Phe Met Glu Thr Asp	
290 295 300	
aaa aaa ata ttt gat aat ttt tat att tct aat gga aaa ttt tca gga	960
Lys Lys Ile Phe Asp Asn Phe Tyr Ile Ser Asn Gly Lys Phe Ser Gly	
305 310 315 320	
tct gaa tta gtt aca tta aat ata tct tct aaa tta aaa act ttt aga	1008
Ser Glu Leu Val Thr Leu Asn Ile Ser Ser Lys Leu Lys Thr Phe Arg	
325 330 335	
gat act ata ttt aaa gaa aga aat gtt ggt aaa cga ttt gta tat ttt	1056
Asp Thr Ile Phe Lys Glu Arg Asn Val Gly Lys Arg Phe Val Tyr Phe	
340 345 350	
gct aat agt act ata gga agt gct ata ata aga agt gtt atg tta gca	1104
Ala Asn Ser Thr Ile Gly Ser Ala Ile Ile Arg Ser Val Met Leu Ala	
355 360 365	
aat ggc ata tct gaa tat gga aaa gaa att gtt aat aat ttt aca tgt	1152
Asn Gly Ile Ser Glu Tyr Gly Lys Glu Ile Val Asn Asn Phe Thr Cys	
370 375 380	
gtt aat tgt ata aag gat aaa att tgt cac aat gga gaa tgt att cct	1200
Val Asn Cys Ile Lys Asp Lys Ile Cys His Asn Gly Glu Cys Ile Pro	
385 390 395 400	
atg aga ttt gta ata att aca tca aaa gaa tta aat aaa gga aat agt	1248
Met Arg Phe Val Ile Ile Thr Ser Lys Glu Leu Asn Lys Gly Asn Ser	
405 410 415	
aat tat ata aat aat att tta agt att ttt aac gaa gat att aat gat	1296
Asn Tyr Ile Asn Asn Ile Leu Ser Ile Phe Asn Glu Asp Ile Asn Asp	
420 425 430	
gat gga aat aat ata atg ttt tta ttt ggt tca aaa att ata tca gaa	1344
Asp Gly Asn Asn Ile Met Phe Leu Phe Gly Ser Lys Ile Ile Ser Glu	
435 440 445	
gct tat act tta aaa aac gta aaa gat ata tgg ttt tta act gtt cct	1392
Ala Tyr Thr Leu Lys Asn Val Lys Asp Ile Trp Phe Leu Thr Val Pro	
450 455 460	

gaa aca aaa tct gaa tta gat caa tgt gta gct aga gct gtt aga tca 1440
 Glu Thr Lys Ser Glu Leu Asp Gln Cys Val Ala Arg Ala Val Arg Ser
 465 470 475 480

ttt tct tat aaa gat act aat aca aaa gta ata att aga ata tgt att 1488
 Phe Ser Tyr Lys Asp Thr Asn Thr Lys Val Ile Ile Arg Ile Cys Ile
 485 490 495

gca tca aca aca aat aca tta agt aac gat gtt tct aaa aca att gaa 1536
 Ala Ser Thr Thr Asn Thr Leu Ser Asn Asp Val Ser Lys Thr Ile Glu
 500 505 510

caa tat aaa gat gtt aat att tct gat gtt tat aaa aat act tta tta 1584
 Gln Tyr Lys Asp Val Asn Ile Ser Asp Val Tyr Lys Asn Thr Leu Leu
 515 520 525

aat aaa att gaa tta ttg tta acg gaa agt tcg tat act tta tct tat 1632
 Asn Lys Ile Glu Leu Leu Leu Thr Glu Ser Ser Tyr Thr Leu Ser Tyr
 530 535 540

gat ttt aga aaa caa tta tat tct gaa tta aaa ttt gaa aaa tct aaa 1680
 Asp Phe Arg Lys Gln Leu Tyr Ser Glu Leu Lys Phe Glu Lys Ser Lys
 545 550 555 560

gta gct gat aat ata ttt aaa aat cta act att tta tct tca gat acc 1728
 Val Ala Asp Asn Ile Phe Lys Asn Leu Thr Thr Ile Leu Ser Ser Asp Thr
 565 570 575

atc gag agt gat gtt ttg gaa tgt ttt gtt tta gaa aaa atc cga aga 1776
 Ile Glu Ser Asp Val Leu Glu Cys Phe Val Leu Glu Lys Ile Arg Arg
 580 585 590

tat tgt tat tac aat aca aga ttt aaa ttt aca aca tta aac gaa tat 1824
 Tyr Cys Tyr Tyr Asn Thr Arg Phe Lys Phe Thr Thr Leu Asn Glu Tyr
 595 600 605

ata att aaa aat ata gat att aaa tat aat gat aaa ata aaa gaa tat 1872
 Ile Ile Lys Asn Ile Asp Ile Lys Tyr Asn Asp Lys Ile Lys Glu Tyr
 610 615 620

att aat aat gct ata gaa tca tca ttt gtt ata gaa aat gat ata ttt 1920
 Ile Asn Asn Ala Ile Glu Ser Ser Phe Val Ile Glu Asn Asp Ile Phe
 625 630 635 640

ggt aat tgc tat tta aca tat ttt aaa aat gat att gtt acg gtt ccc 1968
 Gly Asn Cys Tyr Leu Thr Tyr Phe Lys Asn Asp Ile Val Thr Val Pro
 645 650 655

ata gta tta gaa tat aat aat cat cta tta tca gtt aga ttg tga 2013
 Ile Val Leu Glu Tyr Asn Asn His Leu Leu Ser Val Arg Leu
 660 665 670

<210> 54

<211> 1395

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1395)

<223>

<400> 54

atg aat aat aaa att aga aga ttt cca aat aaa aat tta aaa atg cca	48
Met Asn Asn Lys Ile Arg Arg Phe Pro Asn Lys Asn Leu Lys Met Pro	
1 5 10 15	
 gaa tct ggt att aat ttt atg tct atg tta ttt ttt agt aaa ata gat	96
Glu Ser Gly Ile Asn Phe Met Ser Met Leu Phe Phe Ser Lys Ile Asp	
20 25 30	
 aat atg gta tat ttt ata aat cct att aaa tat aat act aat gca aat	144
Asn Met Val Tyr Phe Ile Asn Pro Ile Lys Tyr Asn Thr Asn Ala Asn	
35 40 45	
 ata gct ata tta gaa aaa ata gat gat gat gat gaa aca aga ggt aaa	192
Ile Ala Ile Leu Glu Lys Ile Asp Asp Asp Asp Glu Thr Arg Gly Lys	
50 55 60	
 gta aca ttt ata cct ata aaa tac ttg gaa ata tta tat aat gaa tta	240
Val Thr Phe Ile Pro Ile Lys Tyr Leu Glu Ile Leu Tyr Asn Glu Leu	
65 70 75 80	
 gtt tta gat cca aat cat att aat aat att aat ttt gaa aat aat att	288
Val Leu Asp Pro Asn His Ile Asn Asn Ile Asn Phe Glu Asn Asn Ile	
85 90 95	
 aaa aga aaa ttt ttt cta ttt tgg act ata aaa aaa tat tta caa gat	336
Lys Arg Lys Phe Phe Leu Phe Trp Thr Ile Lys Lys Tyr Leu Gln Asp	
100 105 110	
 aaa aat ata aat att aat act ttt att aca tct aaa aaa tat aaa ggc	384
Lys Asn Ile Asn Ile Asn Thr Phe Ile Thr Ser Lys Lys Tyr Lys Gly	
115 120 125	
 att cca tta gta tat atg aga aag tct ttt cta aaa tca gaa tta tcc	432
Ile Pro Leu Val Tyr Met Arg Lys Ser Phe Leu Lys Ser Glu Leu Ser	
130 135 140	
 aaa aca aga gat ttt tct aca ttt gcc aca att tat gat gat ttg gat	480
Lys Thr Arg Asp Phe Ser Thr Phe Ala Thr Ile Tyr Asp Asp Leu Asp	
145 150 155 160	

gct caa ata gga ata ccg cct ttg gga ttt aat cct aaa cct aaa gct	528
Ala Gln Ile Gly Ile Pro Pro Leu Gly Phe Asn Pro Lys Pro Lys Ala	
165 170 175	
tac cca aga aaa cat gat aaa tct aca tgg tta agt tcg gga gat ata	576
Tyr Pro Arg Lys His Asp Lys Ser Thr Trp Leu Ser Ser Gly Asp Ile	
180 185 190	
tat aat tgt ata tat cca tta act atg att aat aca gat tat gat tat	624
Tyr Asn Cys Ile Tyr Pro Leu Thr Met Ile Asn Thr Asp Tyr Asp Tyr	
195 200 205	
ttt cat ttg att tta ttt gaa aaa act gat aaa aat att gct aca gta	672
Phe His Leu Ile Leu Phe Glu Lys Thr Asp Lys Asn Ile Ala Thr Val	
210 215 220	
gct tca tct atg aga tgc tat aaa ctt gaa gat aga gta aaa ttt ttt	720
Ala Ser Ser Met Arg Cys Tyr Lys Leu Glu Asp Arg Val Lys Phe Phe	
225 230 235 240	
tta atg aat gat aaa aaa aga ttt ttt atg ttt cct ata att tat aat	768
Leu Met Asn Asp Lys Lys Arg Phe Phe Met Phe Pro Ile Tyr Asn	
245 250 255	
gat cat ttt act tgt tgc gta ata gat aaa cac ttt gat aaa gat aaa	816
Asp His Phe Thr Cys Cys Val Ile Asp Lys His Phe Asp Lys Asp Lys	
260 265 270	
aaa gct gca tac ttt ttt aat agt agt ggt tat ata cca gaa ctt ata	864
Lys Ala Ala Tyr Phe Phe Asn Ser Ser Gly Tyr Ile Pro Glu Leu Ile	
275 280 285	
aaa caa aat aaa aaa tat atg ttt att gaa tct gat atg act ata aaa	912
Lys Gln Asn Lys Lys Tyr Met Phe Ile Glu Ser Asp Met Thr Ile Lys	
290 295 300	
agc cat aaa cac tac aat agt act cct aat act aat tat gct tat tta	960
Ser His Lys His Tyr Asn Ser Thr Pro Asn Thr Asn Tyr Ala Tyr Leu	
305 310 315 320	
tac att gat gta cta tca gaa tat tta aat gat ata ttt aaa aat gta	1008
Tyr Ile Asp Val Leu Ser Glu Tyr Leu Asn Asp Ile Phe Lys Asn Val	
325 330 335	
aat tat tac ttt ttt aat act ttt gaa tta caa tat gat agt ccc gat	1056
Asn Tyr Tyr Phe Phe Asn Thr Phe Glu Leu Gln Tyr Asp Ser Pro Asp	
340 345 350	
tgt ggt atg ttt aat ata ata ttt tta tat tat ata gtt tat ttc aac	1104
Cys Gly Met Phe Asn Ile Ile Phe Leu Tyr Tyr Ile Val Tyr Phe Asn	
355 360 365	
ata aaa tct aaa ttt gaa ttt aaa aaa tta tat tat tct atg agt ttt	1152
Ile Lys Ser Lys Phe Glu Phe Lys Lys Leu Tyr Tyr Ser Met Ser Phe	
370 375 380	
att ggt gat tta ttg gct agt agt tat aga ggt gca tta ttt att tct	1200

ata gga tta aaa aat ttg aat agt atg tta tta ttt tgg gat act ggt 192
Ile Gly Leu Lys Asn Leu Asn Ser Met Leu Leu Phe Trp Asp Thr Gly

50	55	60	
atg gga aaa aca tta act gct gtg tat att ata aaa tat ata aaa gaa			240
Met Gly Lys Thr Leu Thr Ala Val Tyr Ile Ile Lys Tyr Ile Lys Glu			
65	70	75	80
tta ttt cca aga tgg ata att tta ata ttt att aaa aaa tca tta tac			288
Leu Phe Pro Arg Trp Ile Ile Leu Ile Phe Ile Lys Lys Ser Leu Tyr			
	85	90	95
ata gat cct tgg tta aat act ata aga tca tat ata tca gat acc agt			336
Ile Asp Pro Trp Leu Asn Thr Ile Arg Ser Tyr Ile Ser Asp Thr Ser			
	100	105	110
aat ata aaa ttt ata tat tat gat tcg tca tct agt tta gat aaa ttt			384
Asn Ile Lys Phe Ile Tyr Tyr Asp Ser Ser Ser Ser Leu Asp Lys Phe			
	115	120	125
aat aat ata tat aga tct ata gaa agt tct ctt aat aaa aaa agt aga			432
Asn Asn Ile Tyr Arg Ser Ile Glu Ser Ser Leu Asn Lys Lys Ser Arg			
	130	135	140
tta cta ata ata ata gac gaa gtt cat aaa tta ata tca aga act gtt			480
Leu Leu Ile Ile Ile Asp Glu Val His Lys Leu Ile Ser Arg Thr Val			
145	150	155	160
aaa aaa gat aat aac gaa aga aat ttt act cct att tat aaa aaa tta			528
Lys Lys Asp Asn Asn Glu Arg Asn Phe Thr Pro Ile Tyr Lys Lys Leu			
	165	170	175
ata aaa tta gca aat ttc gaa aat aat aaa ata tta tgt atg tcc gct			576
Ile Lys Leu Ala Asn Phe Glu Asn Asn Lys Ile Leu Cys Met Ser Ala			
	180	185	190
act cca gta act aat aat att tct gaa ttt aat aat tta ata ggt tta			624
Thr Pro Val Thr Asn Asn Ile Ser Glu Phe Asn Asn Leu Ile Gly Leu			
	195	200	205
ctt aga cca aat gtt atg aat ata aaa gaa gaa tat ata aat aat gga			672
Leu Arg Pro Asn Val Met Asn Ile Lys Glu Glu Tyr Ile Asn Asn Gly			
	210	215	220
aag tta att aat ttt aag gaa tta aga gaa aca tta tta gct ata tgt			720
Lys Leu Ile Asn Phe Lys Glu Leu Arg Glu Thr Leu Leu Ala Ile Cys			
225	230	235	240
tct tat aaa aga tta ata gaa gca gat agt tta aca gaa aca aat tat			768
Ser Tyr Lys Arg Leu Ile Glu Ala Asp Ser Leu Thr Glu Thr Asn Tyr			
	245	250	255
ata gat gga tat gca aaa aaa aat ata ttt tat cat aat ata att atg			816
Ile Asp Gly Tyr Ala Lys Lys Asn Ile Phe Tyr His Asn Ile Ile Met			
	260	265	270
tca gat gag caa tct aaa tta tat aat atg gca gaa aaa tat gat tat			864
Ser Asp Glu Gln Ser Lys Leu Tyr Asn Met Ala Glu Lys Tyr Asp Tyr			
	275	280	285

aaa act gaa tta ggt ggt tta aaa act atg aga aga tta ata tct tca	912
Lys Thr Glu Leu Gly Gly Leu Lys Thr Met Arg Arg Leu Ile Ser Ser	
290 295 300	
ttt gct ttt tat gat ctt aaa ata aaa gga gat tta gat aat ata gaa	960
Phe Ala Phe Tyr Asp Leu Lys Ile Lys Gly Asp Leu Asp Asn Ile Glu	
305 310 315 320	
tat aat gat atg att aaa aga aaa ctt gct gaa ttt tcc gag ttt aca	1008
Tyr Asn Asp Met Ile Lys Arg Lys Leu Ala Glu Phe Ser Glu Phe Thr	
325 330 335	
aaa aat att aat ttc tct gaa tct ttt att gaa agt ttt aaa aat gat	1056
Lys Asn Ile Asn Phe Ser Glu Ser Phe Ile Glu Ser Phe Lys Asn Asp	
340 345 350	
aat ata aaa ata aaa act aat tta cca atc act gat ata aat aat tat	1104
Asn Ile Lys Ile Lys Thr Asn Leu Pro Ile Thr Asp Ile Asn Asn Tyr	
355 360 365	
aat ata tta tat caa tat tcg tgt aaa tat ata gaa act tgt aaa ata	1152
Asn Ile Leu Tyr Gln Tyr Ser Cys Lys Tyr Ile Glu Thr Cys Lys Ile	
370 375 380	
att tta aat tcg aga gga aaa gta tta ata ttt gaa cct tta gtt aat	1200
Ile Leu Asn Ser Arg Gly Lys Val Leu Ile Phe Glu Pro Leu Val Asn	
385 390 395 400	
ttt gaa gga ata tca agt tta aaa tgt tat ttt aat tgt ttt aat att	1248
Phe Glu Gly Ile Ser Ser Leu Lys Cys Tyr Phe Asn Cys Phe Asn Ile	
405 410 415	
tct tat att gaa tat tct agc aaa act tta aaa act aga gat aat gaa	1296
Ser Tyr Ile Glu Tyr Ser Ser Lys Thr Leu Lys Thr Arg Asp Asn Glu	
420 425 430	
tta aac gaa tat aat aat tat gaa aat aat aat ggt aaa aaa gta aaa	1344
Leu Asn Glu Tyr Asn Asn Tyr Glu Asn Asn Asn Gly Lys Lys Val Lys	
435 440 445	
gtt tgc ata ttt tct tac gct gga tct gaa ggc ata tca ttc aaa tgt	1392
Val Cys Ile Phe Ser Tyr Ala Gly Ser Glu Gly Ile Ser Phe Lys Cys	
450 455 460	
att aat gat ata att ata tta gat atg ccg tgg aat gaa tca gaa tta	1440
Ile Asn Asp Ile Ile Ile Leu Asp Met Pro Trp Asn Glu Ser Glu Leu	
465 470 475 480	
aaa caa ata ata gga aga tct ata aga tta aat tct cat aaa gat tta	1488
Lys Gln Ile Ile Gly Arg Ser Ile Arg Leu Asn Ser His Lys Asp Leu	
485 490 495	
cca caa gaa tat aga tat gtt aac gtt cat ttt tta ata tca tat acc	1536
Pro Gln Glu Tyr Arg Tyr Val Asn Val His Phe Leu Ile Ser Tyr Thr	
500 505 510	

```

aac aac aga aaa tct gta gat aaa gaa ata tta gat att ata aaa gat      1584
Asn Asn Arg Lys Ser Val Asp Lys Glu Ile Leu Asp Ile Ile Lys Asp
      515                      520                      525

aaa caa ggt aaa ata aat gtt ata ttt gat tta tta aaa tca tca tct      1632
Lys Gln Gly Lys Ile Asn Val Ile Phe Asp Leu Leu Lys Ser Ser Ser
      530                      535                      540

atc gaa tct att cat aac aca tat aaa tat ata gaa cca gca gaa aat      1680
Ile Glu Ser Ile His Asn Thr Tyr Lys Tyr Ile Glu Pro Ala Glu Asn
545                      550                      555                      560

gaa ata att ttt gac aca ata cgt aaa act aga atg aaa gaa atg aac      1728
Glu Ile Ile Phe Asp Thr Ile Arg Lys Thr Arg Met Lys Glu Met Asn
      565                      570                      575

gta tct aat gtt att att aat ata aaa tta tat ccc ata tca tat tgt      1776
Val Ser Asn Val Ile Ile Asn Ile Lys Leu Tyr Pro Ile Ser Tyr Cys
      580                      585                      590

aaa gat tat gat aga gcc act ata tta aaa ggt tta tta aac aaa gac      1824
Lys Asp Tyr Asp Arg Ala Thr Ile Leu Lys Gly Leu Leu Asn Lys Asp
      595                      600                      605

aca aat ata gta tat aaa gat aat aca gct gta gca aaa tta atg att      1872
Thr Asn Ile Val Tyr Lys Asp Asn Thr Ala Val Ala Lys Leu Met Ile
      610                      615                      620

gat aaa gac aat ata cct ata ttt ata ata gag aat gat aca tta ata      1920
Asp Lys Asp Asn Ile Pro Ile Phe Ile Ile Glu Asn Asp Thr Leu Ile
625                      630                      635                      640

tat ata gca gat gat tat tat gaa tag      1947
Tyr Ile Ala Asp Asp Tyr Tyr Glu
      645

```

<210> 56

<211> 453

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (453)

<223>

<400> 56

atg aac gta aaa att ata gaa aaa tat caa cat ttt aaa gaa gat aaa 48
 Met Asn Val Lys Ile Ile Glu Lys Tyr Gln His Phe Lys Glu Asp Lys
 1 5 10 15

tat ata tca tat tat aat ata ttt ata tat ata cta gaa gaa tat att 96
 Tyr Ile Ser Tyr Tyr Asn Ile Phe Ile Tyr Ile Leu Glu Glu Tyr Ile
 20 25 30

ata ata tta tat aat tat aaa tta ata tat ata ata aat aaa aat tat 144
 Ile Ile Leu Tyr Asn Tyr Lys Leu Ile Tyr Ile Ile Asn Lys Asn Tyr
 35 40 45

ata caa tat atg tat tat aat tat tta ttt aaa aat aat ata tat tat 192
 Ile Gln Tyr Met Tyr Tyr Asn Tyr Leu Phe Lys Asn Asn Ile Tyr Tyr
 50 55 60

aat tta aaa tta tat aat aat aat aaa tta tta aaa cat aaa ccg tcg 240
 Asn Leu Lys Leu Tyr Asn Asn Asn Lys Leu Leu Lys His Lys Pro Ser
 65 70 75 80

aaa aaa gta cgc ttt tca tcc gaa cca cca aaa ctc cac att atg tat 288
 Lys Lys Val Arg Phe Ser Ser Glu Pro Pro Lys Leu His Ile Met Tyr
 85 90 95

gtt tgg tta tat gct gca aaa caa act cga aaa tta tac tgg gat aaa 336
 Val Trp Leu Tyr Ala Ala Lys Gln Thr Arg Lys Leu Tyr Trp Asp Lys
 100 105 110

ttt gcg att gat aga cat aga ttc aaa aga aga att aat gat ata gat 384
 Phe Ala Ile Asp Arg His Arg Phe Lys Arg Arg Ile Asn Asp Ile Asp
 115 120 125

ata tca ata tct tgg gtt tta act cca cat cac aga cat aaa att atg 432
 Ile Ser Ile Ser Trp Val Leu Thr Pro His His Arg His Lys Ile Met
 130 135 140

aaa cat ctt aag tta ata taa 453
 Lys His Leu Lys Leu Ile
 145 150

<210> 57

<211> 900

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(900)

<223>

<400> 57

atg gac gaa aca ata aat ttt aat aat aaa tca tgg gaa ata aaa aat	48
Met Asp Glu Thr Ile Asn Phe Asn Asn Lys Ser Trp Glu Ile Lys Asn	
1 5 10 15	
tta ata gct aaa ggt ggt ttt gga aca gta tat aaa tta tgc gaa aaa	96
Leu Ile Ala Lys Gly Gly Phe Gly Thr Val Tyr Lys Leu Cys Glu Lys	
20 25 30	
aat gat aat aat aac tgt tac gct att aaa ata gaa cca tcg gat aat	144
Asn Asp Asn Asn Asn Cys Tyr Ala Ile Lys Ile Glu Pro Ser Asp Asn	
35 40 45	
ggt ccg ttg ttt gta gaa atg cac ttt tat aaa aaa ata aat aaa aat	192
Gly Pro Leu Phe Val Glu Met His Phe Tyr Lys Lys Ile Asn Lys Asn	
50 55 60	
gaa ata aaa aat ttt att gat gcg aaa aat tta agt tat tta gga ata	240
Glu Ile Lys Asn Phe Ile Asp Ala Lys Asn Leu Ser Tyr Leu Gly Ile	
65 70 75 80	
cca tta cta tat cat aat ggt att ata aaa aaa gat aat ata gaa tat	288
Pro Leu Leu Tyr His Asn Gly Ile Ile Lys Lys Asp Asn Ile Glu Tyr	
85 90 95	
aga tat ata gta ata gat tat tat gaa ttt aat tta aat gat ata tta	336
Arg Tyr Ile Val Ile Asp Tyr Tyr Glu Phe Asn Leu Asn Asp Ile Leu	
100 105 110	
aaa aaa tat ata aaa tta cct ata ata aca ata tat aaa ata act ata	384
Lys Lys Tyr Ile Lys Leu Pro Ile Ile Thr Ile Tyr Lys Ile Thr Ile	
115 120 125	
caa ata tta tat ata tta gaa tat tta cac aaa aaa aaa tat aca cac	432
Gln Ile Leu Tyr Ile Leu Glu Tyr Leu His Lys Lys Lys Tyr Thr His	
130 135 140	
aat gat ata aaa aaa aat aat ata atg ttt aat tca tca tta act aaa	480
Asn Asp Ile Lys Lys Asn Asn Ile Met Phe Asn Ser Ser Leu Thr Lys	
145 150 155 160	
gta tat tta ata gat tac gga cta ata tat aat atg aat tct aat caa	528
Val Tyr Leu Ile Asp Tyr Gly Leu Ile Tyr Asn Met Asn Ser Asn Gln	
165 170 175	
gaa tat aat ata aaa tgt agt aat gat gga act cta gaa tat tta cca	576
Glu Tyr Asn Ile Lys Cys Ser Asn Asp Gly Thr Leu Glu Tyr Leu Pro	
180 185 190	
tta ata act cat tta ttt ggc tta aaa aca tac atg gga gat ata gag	624
Leu Ile Thr His Leu Phe Gly Leu Lys Thr Tyr Met Gly Asp Ile Glu	

195	200	205	
tct ctg atg tat aat att att gaa tgg tat agt gga agt ttg cct tgg			672
Ser Leu Met Tyr Asn Ile Ile Glu Trp Tyr Ser Gly Ser Leu Pro Trp			
210	215	220	
att aaa tat aaa aaa aaa aat gtt ata tta aaa aaa tta gat ttt ttc			720
Ile Lys Tyr Lys Lys Lys Asn Val Ile Leu Lys Lys Leu Asp Phe Phe			
225	230	235	240
aac act tgt tta act aat tca cca att gaa ata tgt aaa tta tat aat			768
Asn Thr Cys Leu Thr Asn Ser Pro Ile Glu Ile Cys Lys Leu Tyr Asn			
245	250	255	
tat ata aaa aat gct cct tct ata tat aat tat aat ttt ata cct gat			816
Tyr Ile Lys Asn Ala Pro Ser Ile Tyr Asn Tyr Asn Phe Ile Pro Asp			
260	265	270	
cat gat aaa tta att aat tat ttt gta act tat tta aaa tct aaa aat			864
His Asp Lys Leu Ile Asn Tyr Phe Val Thr Tyr Leu Lys Ser Lys Asn			
275	280	285	
ata aat tta aat gat aaa tta gtt ttt tgt aaa taa			900
Ile Asn Leu Asn Asp Lys Leu Val Phe Cys Lys			
290	295		

<210> 58

<211> 1599

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (1599)

<223>

<400> 58

atg aat cat att aaa aaa att tta aaa ata aaa agt gat aaa gat ata	48
Met Asn His Ile Lys Lys Ile Leu Lys Ile Lys Ser Asp Lys Asp Ile	
1 5 10 15	
tta aat tac ata gat gca tta aat tat aat gat tta gaa aat ata ata	96
Leu Asn Tyr Ile Asp Ala Leu Asn Tyr Asn Asp Leu Glu Asn Ile Ile	
20 25 30	
cag aca tta gat aat agt tat tat gat aaa gaa gct tta att agt gat	144

Gln Thr Leu Asp Asn Ser Tyr Tyr Asp Lys Glu Ala Leu Ile Ser Asp	
35 40 45	
aaa aaa tat gat tta ata aga aat ttt ata aat aat aag tat cct aat	192
Lys Lys Tyr Asp Leu Ile Arg Asn Phe Ile Asn Asn Lys Tyr Pro Asn	
50 55 60	
gaa tct ttg tgt aaa aaa ata ggt tat act ccg gaa gat aaa gta cga	240
Glu Ser Leu Cys Lys Lys Ile Gly Tyr Thr Pro Glu Asp Lys Val Arg	
65 70 75 80	
tta aag tat ttt atg ggt agt gaa aat aaa act tat aaa tca gat aat	288
Leu Lys Tyr Phe Met Gly Ser Glu Asn Lys Thr Tyr Lys Ser Asp Asn	
85 90 95	
aaa tta tta agt tgg ata aac gaa tat cat act aat ata tta gta tta	336
Lys Leu Leu Ser Trp Ile Asn Glu Tyr His Thr Asn Ile Leu Val Leu	
100 105 110	
tct gca aaa gca gac gga ata tca gta tta tgg gat ata aaa aat aat	384
Ser Ala Lys Ala Asp Gly Ile Ser Val Leu Trp Asp Ile Lys Asn Asn	
115 120 125	
aaa ata tat agt aga ggt gat ggt aaa tat gga aaa gat ata aca cat	432
Lys Ile Tyr Ser Arg Gly Asp Gly Lys Tyr Gly Lys Asp Ile Thr His	
130 135 140	
ttt att aat tat ttt aat ttt tca gat gat aaa aat ata aat aac aat	480
Phe Ile Asn Tyr Phe Asn Phe Ser Asp Asp Lys Asn Ile Asn Asn Asn	
145 150 155 160	
gat ata ttt aaa aat aat ata aat ttt gtt aga ggt gaa tta gtt ata	528
Asp Ile Phe Lys Asn Asn Ile Asn Phe Val Arg Gly Glu Leu Val Ile	
165 170 175	
gat aaa cct gaa aat aga aat ata gta gca ggt caa ata aat aga aat	576
Asp Lys Pro Glu Asn Arg Asn Ile Val Ala Gly Gln Ile Asn Arg Asn	
180 185 190	
gaa att gat aaa gaa acc gca tta aaa ata tat ttt gta gca tac gaa	624
Glu Ile Asp Lys Glu Thr Ala Leu Lys Ile Tyr Phe Val Ala Tyr Glu	
195 200 205	
ata tta gaa cca aga atg aca caa ctc gaa caa ttt cac aaa ctt aca	672
Ile Leu Glu Pro Arg Met Thr Gln Leu Glu Gln Phe His Lys Leu Thr	
210 215 220	
gag aat agt ata aga act gtt aaa tat gat tct gtt gat tat aat att	720
Glu Asn Ser Ile Arg Thr Val Lys Tyr Asp Ser Val Asp Tyr Asn Ile	
225 230 235 240	
tca tac gaa caa tta agt gaa ata tat aat aat tat acg caa gaa tta	768
Ser Tyr Glu Gln Leu Ser Glu Ile Tyr Asn Asn Tyr Thr Gln Glu Leu	
245 250 255	
tcg tat tac ata gat ggt att ata ata aga aat aat aat tta aat cca	816
Ser Tyr Tyr Ile Asp Gly Ile Ile Ile Arg Asn Asn Asn Leu Asn Pro	

260	265	270	
gtt att aaa tct ggt aat cca cct tgg tca ata tgt ttt aag gaa aca Val Ile Lys Ser Gly Asn Pro Pro Trp Ser Ile Cys Phe Lys Glu Thr 275 280 285			864
gat aaa ata tat att act act gtt aaa gaa atc aaa tgg gat ata tca Asp Lys Ile Tyr Ile Thr Thr Val Lys Glu Ile Lys Trp Asp Ile Ser 290 295 300			912
aaa aaa aat ata tat ata cct aaa gca ata tta gag cct ata att ata Lys Lys Asn Ile Tyr Ile Pro Lys Ala Ile Leu Glu Pro Ile Ile Ile 305 310 315 320			960
gat aat tcg act att aat gct gtt gct tgt cac aat gct aaa tat gta Asp Asn Ser Thr Ile Asn Ala Val Ala Cys His Asn Ala Lys Tyr Val 325 330 335			1008
att gat aaa aaa att aac act ggt tca ata gta gaa ata gta aag aaa Ile Asp Lys Lys Ile Asn Thr Gly Ser Ile Val Glu Ile Val Lys Lys 340 345 350			1056
ggg gga gtt ata ccg ata att aat aat gta ata aaa gaa tca gat ata Gly Gly Val Ile Pro Ile Ile Asn Asn Val Ile Lys Glu Ser Asp Ile 355 360 365			1104
gaa att ata tta ccc gat ggt att tta tct ggt gta aat att ata ttt Glu Ile Ile Leu Pro Asp Gly Ile Leu Ser Gly Val Asn Ile Ile Phe 370 375 380			1152
act ggt gtt aac aaa gaa agt gaa att aaa aga ata tta tac ttt ttt Thr Gly Val Asn Lys Glu Ser Glu Ile Lys Arg Ile Leu Tyr Phe Phe 385 390 395 400			1200
aaa tca ttt gga tat aaa aat att aat aaa aca ata att gat aaa tta Lys Ser Phe Gly Tyr Lys Asn Ile Asn Lys Thr Ile Ile Asp Lys Leu 405 410 415			1248
tat atg tta gga tat gta aat ata tta aaa tat tta gaa aaa gat att Tyr Met Leu Gly Tyr Val Asn Ile Leu Lys Tyr Leu Glu Lys Asp Ile 420 425 430			1296
aat ata gaa gaa tat aat aat aaa aaa act tat att aaa tta ttg gaa Asn Ile Glu Glu Tyr Asn Asn Lys Lys Thr Tyr Ile Lys Leu Leu Glu 435 440 445			1344
gta att aaa gat ata aaa agt aaa aat tat aat atc gta gac ata tta Val Ile Lys Asp Ile Lys Ser Lys Asn Tyr Asn Ile Val Asp Ile Leu 450 455 460			1392
aca gca tta tct cta gat agt ata tca aaa tca aga gtt tgt gct att Thr Ala Leu Ser Leu Asp Ser Ile Ser Lys Ser Arg Val Cys Ala Ile 465 470 475 480			1440
tat aat gag ttt cca gat ttt ttg aaa gat aaa aat gaa aaa gat tat Tyr Asn Glu Phe Pro Asp Phe Leu Lys Asp Lys Asn Glu Lys Asp Tyr 485 490 495			1488

agt tca ata aac ggt att gga aaa tct ata tca aaa aaa att aat gat 1536
 Ser Ser Ile Asn Gly Ile Gly Lys Ser Ile Ser Lys Lys Ile Asn Asp
 500 505 510

aat att ata aat aat tac gaa tat ata ata aat att tta aac gct tta 1584
 Asn Ile Ile Asn Asn Tyr Glu Tyr Ile Ile Asn Ile Leu Asn Ala Leu
 515 520 525

aat ata aag tat taa 1599
 Asn Ile Lys Tyr
 530

<210> 59

<211> 687

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(687)

<223>

<400> 59
 atg agc gat aat ata aaa tgt aaa tat tgt aat tct ttt aac ata ata 48
 Met Ser Asp Asn Ile Lys Cys Lys Tyr Cys Asn Ser Phe Asn Ile Ile
 1 5 10 15

aaa aat aaa gat ata tat tca tgt tgt gat tgc tca aat tgt tat aca 96
 Lys Asn Lys Asp Ile Tyr Ser Cys Cys Asp Cys Ser Asn Cys Tyr Thr
 20 25 30

aca tcg tca aaa aga ata aca aca ata agt agt gct tca aac aat aaa 144
 Thr Ser Ser Lys Arg Ile Thr Thr Ile Ser Ser Ala Ser Asn Asn Lys
 35 40 45

act ata cat tgt aat aat gtt tta aaa gaa ata tca aat acc agt att 192
 Thr Ile His Cys Asn Asn Val Leu Lys Glu Ile Ser Asn Thr Ser Ile
 50 55 60

tca tat gat ata gta gat ggt ttt cta aaa cta atc aat gat aat aat 240
 Ser Tyr Asp Ile Val Asp Gly Phe Leu Lys Leu Ile Asn Asp Asn Asn
 65 70 75 80

tta aat aca aaa agt ata aca act gcg tta ggt tct gaa tat tta aaa 288
 Leu Asn Thr Lys Ser Ile Thr Thr Ala Leu Gly Ser Glu Tyr Leu Lys

85	90	95	
tca aaa ggt ata aaa aat tat aga act acg cat aaa tta att aat atg			336
Ser Lys Gly Ile Lys Asn Tyr Arg Thr Thr His Lys Leu Ile Asn Met			
100	105	110	
tct cta tcg gat ggt aat aat tgt ata tta act aaa gac gat atc ttt			384
Ser Leu Ser Asp Gly Asn Asn Cys Ile Leu Thr Lys Asp Asp Ile Phe			
115	120	125	
aga att aat ata att ttt gag gat ttt aca caa ttt ata tat aaa aat			432
Arg Ile Asn Ile Ile Phe Glu Asp Phe Thr Gln Phe Ile Tyr Lys Asn			
130	135	140	
aat tat aca aaa act ata tct tac gaa ttc tgt tta gat aga ata ttt			480
Asn Tyr Thr Lys Thr Ile Ser Tyr Glu Phe Cys Leu Asp Arg Ile Phe			
145	150	155	160
gat att ctt aat ata aat tat gta ata aat ttc aat tat agc aaa cta			528
Asp Ile Leu Asn Ile Asn Tyr Val Ile Asn Phe Asn Tyr Ser Lys Leu			
165	170	175	
aat aaa aga gac gat aaa cca gaa ata tgg aat aaa tat ata att gaa			576
Asn Lys Arg Asp Asp Lys Pro Glu Ile Trp Asn Lys Tyr Ile Ile Glu			
180	185	190	
tta tat aat aaa tca ttg att aaa tct aat aat aaa ttt ata ttt aga			624
Leu Tyr Asn Lys Ser Leu Ile Lys Ser Asn Asn Lys Phe Ile Phe Arg			
195	200	205	
cca aat aat att att ttt aat gaa tat ata aaa aat aat ata tgt ttg			672
Pro Asn Asn Ile Ile Phe Asn Glu Tyr Ile Lys Asn Asn Ile Cys Leu			
210	215	220	
cgt aat att att taa			687
Arg Asn Ile Ile			
225			

<210> 60

<211> 3906

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (3906)

<223>

```

<400> 60
atg aca act ttt aaa tat act ttg tta gat aat agc aca ata gat gct      48
Met Thr Thr Phe Lys Tyr Thr Leu Leu Asp Asn Ser Thr Ile Asp Ala
1          5          10          15

att cca ata gtt att gat tct att gga aat gat aac gaa aat agt gta      96
Ile Pro Ile Val Ile Asp Ser Ile Gly Asn Asp Asn Glu Asn Ser Val
          20          25          30

aaa agt cct aaa tta ggc gga act aaa ttc aat gtg tgt tcg aca tgc      144
Lys Ser Pro Lys Leu Gly Gly Thr Lys Phe Asn Val Cys Ser Thr Cys
          35          40          45

aat tta aca aga gaa aat ggc gac atg ggt cat cca gga aga act cct      192
Asn Leu Thr Arg Glu Asn Gly Asp Met Gly His Pro Gly Arg Thr Pro
          50          55          60

tta aga gat atg tgt att gta aaa tct ggt tgt att aaa aat gtt ttg      240
Leu Arg Asp Met Cys Ile Val Lys Ser Gly Cys Ile Lys Asn Val Leu
65          70          75          80

gat aca cta aat aca tta aaa tta tgt aat agt tgt ttt atg ata aaa      288
Asp Thr Leu Asn Thr Leu Lys Leu Cys Asn Ser Cys Phe Met Ile Lys
          85          90          95

aat aat aca ata ttt tca gaa ata att gaa aaa tat aat agc gaa tat      336
Asn Asn Thr Ile Phe Ser Glu Ile Ile Glu Lys Tyr Asn Ser Glu Tyr
          100          105          110

aat att aat tta aaa aaa gaa ata tta tca tta tta aaa aac aat cgc      384
Asn Ile Asn Leu Lys Lys Glu Ile Leu Ser Leu Leu Lys Asn Asn Arg
          115          120          125

caa ggt ggg gta aaa tgt aat aat gaa aat tgt caa aat ata aca gga      432
Gln Gly Gly Val Lys Cys Asn Asn Glu Asn Cys Gln Asn Ile Thr Gly
          130          135          140

aca tat aaa tat aat caa aaa aaa tca tat ttt tac gta aaa aaa caa      480
Thr Tyr Lys Tyr Asn Gln Lys Lys Ser Tyr Phe Tyr Val Lys Lys Gln
145          150          155          160

aaa gat gaa atc att ctt aat aaa aca gtt tat act atg tta ctt gga      528
Lys Asp Glu Ile Ile Leu Asn Lys Thr Val Tyr Thr Met Leu Leu Gly
          165          170          175

att cct gat ata att tat aaa tgt gtt act gta cca tac gca gat tct      576
Ile Pro Asp Ile Ile Tyr Lys Cys Val Thr Val Pro Tyr Ala Asp Ser
          180          185          190

caa tta caa cct tat aaa gca ttt tac gct aat aat att ata att cct      624
Gln Leu Gln Pro Tyr Lys Ala Phe Tyr Ala Asn Asn Ile Ile Ile Pro
          195          200          205

gta tta cca tct aga cct cca aat tat ttt gat aat aaa gaa tct cat      672
Val Leu Pro Ser Arg Pro Pro Asn Tyr Phe Asp Asn Lys Glu Ser His

```

210	215	220	
gtt atg aca aca aaa ttg ggt caa tta gtt ggc aca tca caa aaa tct			720
Val Met Thr Thr Lys Leu Gly Gln Leu Val Gly Thr Ser Gln Lys Ser			
225	230	235	240
aga gat gaa agt gaa gtt caa aaa ata tat aat gat att gat aat gtt			768
Arg Asp Glu Ser Glu Val Gln Lys Ile Tyr Asn Asp Ile Asp Asn Val			
245	250		255
aaa cca aat tct cca tat aaa act agt aac atg tta gtt acg tta aat			816
Lys Pro Asn Ser Pro Tyr Lys Thr Ser Asn Met Leu Val Thr Leu Asn			
260	265		270
ata caa gtt ggt ggt aac aaa aaa gga agt ata gtt aga tct aat ata			864
Ile Gln Val Gly Gly Asn Lys Lys Gly Ser Ile Val Arg Ser Asn Ile			
275	280		285
atg gct aga aga gcc gat aac aca gct aga tgt gta gct ggt cca act			912
Met Ala Arg Arg Ala Asp Asn Thr Ala Arg Cys Val Ala Gly Pro Thr			
290	295		300
atg gac aaa ata gga tat ata tat ata cca aaa ata gtg gct aag aca			960
Met Asp Lys Ile Gly Tyr Ile Tyr Ile Pro Lys Ile Val Ala Lys Thr			
305	310	315	320
tta aca tca tca ata tat tat aat aga ttt act gaa aat atg att aaa			1008
Leu Thr Ser Ser Ile Tyr Tyr Asn Arg Phe Thr Glu Asn Met Ile Lys			
325	330		335
gat atg tta gtt aat gat aat aac aaa att aaa tat ata tta tta tat			1056
Asp Met Leu Val Asn Asp Asn Asn Lys Ile Lys Tyr Ile Leu Leu Tyr			
340	345		350
aga tat gat caa tta aaa ccc aca aca tta tta aaa ata aaa cca caa			1104
Arg Tyr Asp Gln Leu Lys Pro Thr Thr Leu Leu Lys Ile Lys Pro Gln			
355	360		365
tct aga ctc aat aat tta tta aaa atg aaa tat gga gat aga ata gaa			1152
Ser Arg Leu Asn Asn Leu Leu Lys Met Lys Tyr Gly Asp Arg Ile Glu			
370	375		380
gtt gaa tta gaa gat aat gat gta ata tta ttt agt aga caa cca tct			1200
Val Glu Leu Glu Asp Asn Asp Val Ile Leu Phe Ser Arg Gln Pro Ser			
385	390	395	400
tta cat aaa ttt aat att cag gca ggt ata tgt aaa ata tgg gat aat			1248
Leu His Lys Phe Asn Ile Gln Ala Gly Ile Cys Lys Ile Trp Asp Asn			
405	410		415
aat aca ata gca aca cct acg ccg ata gca aat tct atg aat tta gat			1296
Asn Thr Ile Ala Thr Pro Thr Pro Ile Ala Asn Ser Met Asn Leu Asp			
420	425		430
tat gat ggt gat gaa atg aat gta tat aaa tta aaa tca tct gtg tca			1344
Tyr Asp Gly Asp Glu Met Asn Val Tyr Lys Leu Lys Ser Ser Val Ser			
435	440		445

gta gaa tca tta ttt act atg tta tct gtt aat atg att aaa aat aat	1392
Val Glu Ser Leu Phe Thr Met Leu Ser Val Asn Met Ile Lys Asn Asn	
450 455 460	
tat aat ttt tcg cca ata ttt ggg tta att caa gat caa ata ata tca	1440
Tyr Asn Phe Ser Pro Ile Phe Gly Leu Ile Gln Asp Gln Ile Ile Ser	
465 470 475 480	
gta cat atg ata tat aat att aaa gaa ttt tct cta caa gat gtt att	1488
Val His Met Ile Tyr Asn Ile Lys Glu Phe Ser Leu Gln Asp Val Ile	
485 490 495	
tat att tta gga gaa tat agt tat tat ata aga gat ata aat aaa aaa	1536
Tyr Ile Leu Gly Glu Tyr Ser Tyr Tyr Ile Arg Asp Ile Asn Lys Lys	
500 505 510	
aca tat tct gga aaa gaa tta tta tca tta tta ttt cca gat aat ctt	1584
Thr Tyr Ser Gly Lys Glu Leu Leu Ser Leu Leu Phe Pro Asp Asn Leu	
515 520 525	
aca tat gaa ggt atg ttt gat aat ggt aaa att aca tta tct aat ata	1632
Thr Tyr Glu Gly Met Phe Asp Asn Gly Lys Ile Thr Leu Ser Asn Ile	
530 535 540	
tca tct aaa caa gtt gta gct cag tca tat gaa tca ttt tca aat att	1680
Ser Ser Lys Gln Val Val Ala Gln Ser Tyr Glu Ser Phe Ser Asn Ile	
545 550 555 560	
cta tct caa tta aaa aat aat att tat gct gtg tat ttt ata gat gta	1728
Leu Ser Gln Leu Lys Asn Asn Ile Tyr Ala Val Tyr Phe Ile Asp Val	
565 570 575	
ata tta tat gta gct aga aat ttt ata aat ttg tat agt ttt agc gtt	1776
Ile Leu Tyr Val Ala Arg Asn Phe Ile Asn Leu Tyr Ser Phe Ser Val	
580 585 590	
tcg tta aaa gat att att cca gat ata tat ttt att gac gat gtt caa	1824
Ser Leu Lys Asp Ile Ile Pro Asp Ile Tyr Phe Ile Asp Asp Val Gln	
595 600 605	
gaa tac att aat aat tgt tgt aaa gtt ata caa tat gtt gcg cta caa	1872
Glu Tyr Ile Asn Asn Cys Cys Lys Val Ile Gln Tyr Val Ala Leu Gln	
610 615 620	
tat tat att aaa aaa gat cat ata ata aaa tta act tat gat gaa atg	1920
Tyr Tyr Ile Lys Lys Asp His Ile Ile Lys Leu Thr Tyr Asp Glu Met	
625 630 635 640	
gaa aat ata aga ata caa aac ggt aat aat ata ata tct aat gtt aaa	1968
Glu Asn Ile Arg Ile Gln Asn Gly Asn Asn Ile Ile Ser Asn Val Lys	
645 650 655	
aat aaa ata aat aat cta ttt aaa gat gag aaa tta aat act ata atg	2016
Asn Lys Ile Asn Asn Leu Phe Lys Asp Glu Lys Leu Asn Thr Ile Met	
660 665 670	

atg atg aaa aat tca ggc tat aaa ata aca tta gat gaa tta gta aca	2064
Met Met Lys Asn Ser Gly Tyr Lys Ile Thr Leu Asp Glu Leu Val Thr	
675 680 685	
gtg ttg ggt tgt act gga caa caa gga att gat tca gat gat ata ccg	2112
Val Leu Gly Cys Thr Gly Gln Gln Gly Ile Asp Ser Asp Asp Ile Pro	
690 695 700	
aaa ccc gga att atg gga aga gta ttt gat tca aca tta cct gga agt	2160
Lys Pro Gly Ile Met Gly Arg Val Phe Asp Ser Thr Leu Pro Gly Ser	
705 710 715 720	
tta gac ata gaa tca tta gga tat gta aaa tca tca act ata aaa ggt	2208
Leu Asp Ile Glu Ser Leu Gly Tyr Val Lys Ser Ser Thr Ile Lys Gly	
725 730 735	
tta aaa ttc gaa gaa ttg gca ttt cat aca aaa tac aat tca att aaa	2256
Leu Lys Phe Glu Glu Leu Ala Phe His Thr Lys Tyr Asn Ser Ile Lys	
740 745 750	
aaa ata tta aaa ata aca tgc gag aca tca tcg gca ggt agt att ggt	2304
Lys Ile Leu Lys Ile Thr Cys Glu Thr Ser Ser Ala Gly Ser Ile Gly	
755 760 765	
aga aaa tta gtt aaa ttt atg gaa ggt gtt aaa gta gat cat ttg ggt	2352
Arg Lys Leu Val Lys Phe Met Glu Gly Val Lys Val Asp His Leu Gly	
770 775 780	
aga tcc gta tta aat aat gat att ata tgg tat aat aca aat cat att	2400
Arg Ser Val Leu Asn Asn Asp Ile Ile Trp Tyr Asn Thr Asn His Ile	
785 790 795 800	
aaa atg aca ggt ggt gat ata tct aaa gta gaa ata tta act cct agt	2448
Lys Met Thr Gly Gly Asp Ile Ser Lys Val Glu Ile Leu Thr Pro Ser	
805 810 815	
tta gaa atg gta aat tac aca ctt ata aaa gaa ata tat aac gaa aat	2496
Leu Glu Met Val Asn Tyr Thr Leu Ile Lys Glu Ile Tyr Asn Glu Asn	
820 825 830	
aaa aaa tat tta tta act aat ttt aat act gaa ata aat aaa gaa ttt	2544
Lys Lys Tyr Leu Leu Thr Asn Phe Asn Thr Glu Ile Asn Lys Glu Phe	
835 840 845	
att ttt cca att aat ata aaa tta gag att caa tca ttt tat aat aaa	2592
Ile Phe Pro Ile Asn Ile Lys Leu Glu Ile Gln Ser Phe Tyr Asn Lys	
850 855 860	
aaa tca act cct ata tct gat ata gat gca tta aaa tta att gat gaa	2640
Lys Ser Thr Pro Ile Ser Asp Ile Asp Ala Leu Lys Leu Ile Asp Glu	
865 870 875 880	
ttt ata gaa tat gtc tat att aat ata tat ttt tac aac att aca ata	2688
Phe Ile Glu Tyr Val Tyr Ile Asn Ile Tyr Phe Tyr Asn Ile Thr Ile	
885 890 895	
gat tgg ttt aaa tat att tta tat aca tat cta gat aga aat aca gta	2736

Asp Trp Phe Lys Tyr Ile Leu Tyr Thr Tyr Leu Asp Arg Asn Thr Val	
900 905 910	
gaa aaa tat aat aaa aaa tat tct aaa gaa tta tta aat tat ata ata	2784
Glu Lys Tyr Asn Lys Lys Tyr Ser Lys Glu Leu Leu Asn Tyr Ile Ile	
915 920 925	
aat aaa att aaa tta aaa tta cta aat tca tta aat cca ggt tat cct	2832
Asn Lys Ile Lys Leu Lys Leu Leu Asn Ser Leu Asn Pro Gly Tyr Pro	
930 935 940	
att gga tta gaa tac gca aat aat att caa gaa aaa ttt aca caa caa	2880
Ile Gly Leu Glu Tyr Ala Asn Asn Ile Gln Glu Lys Phe Thr Gln Gln	
945 950 955 960	
tca tta tcg tct ttt cac act act aaa aaa tca gga aca gca tca acc	2928
Ser Leu Ser Ser Phe His Thr Thr Lys Lys Ser Gly Thr Ala Ser Thr	
965 970 975	
caa tta gga ttt tcg gat ttt aaa gat act gta gaa ttg agt aaa aaa	2976
Gln Leu Gly Phe Ser Asp Phe Lys Asp Thr Val Glu Leu Ser Lys Lys	
980 985 990	
aat aaa aga gat att gta att gct ttt aca aca cac aga tat aaa tta	3024
Asn Lys Arg Asp Ile Val Ile Ala Phe Thr Thr His Arg Tyr Lys Leu	
995 1000 1005	
gaa gat att aag aag caa atg gaa tac ttg tgt tta aag aat ttt	3069
Glu Asp Ile Lys Lys Gln Met Glu Tyr Leu Cys Leu Lys Asn Phe	
1010 1015 1020	
aat cca aaa ata aat atc ata gaa gaa act gaa tct gat atg gta	3114
Asn Pro Lys Ile Asn Ile Ile Glu Glu Thr Glu Ser Asp Met Val	
1025 1030 1035	
ata agt gta agt ata aaa aaa tac tat att aat gac aaa ata tct	3159
Ile Ser Val Ser Ile Lys Lys Tyr Tyr Ile Asn Asp Lys Ile Ser	
1040 1045 1050	
tta tat cat tac tta caa atg tat ata gaa tat tta gaa aat aat	3204
Leu Tyr His Tyr Leu Gln Met Tyr Ile Glu Tyr Leu Glu Asn Asn	
1055 1060 1065	
aaa att att aaa ggc tat tgg ata act atg aaa tta aaa gat aat	3249
Lys Ile Ile Lys Gly Tyr Trp Ile Thr Met Lys Leu Lys Asp Asn	
1070 1075 1080	
gat ata aca gtg ata ttt gga gtt aaa att aaa act cct tat aat	3294
Asp Ile Thr Val Ile Phe Gly Val Lys Ile Lys Thr Pro Tyr Asn	
1085 1090 1095	
ata aat aaa ata tat atg ata aaa agt ata cca gtt tcg gtt tct	3339
Ile Asn Lys Ile Tyr Met Ile Lys Ser Ile Pro Val Ser Val Ser	
1100 1105 1110	
aaa ggt aaa ata agt aac ata aat tta gag ata gaa gat gtt aaa	3384
Lys Gly Lys Ile Ser Asn Ile Asn Leu Glu Ile Glu Asp Val Lys	

1115	1120	1125	
atg tat aat aat aat ttg	gaa gaa caa aat ggt	tat aga tta aaa	3429
Met Tyr Asn Asn Asn Leu	Glu Glu Gln Asn Gly Tyr	Arg Leu Lys	
1130	1135	1140	
ttc tat att gat agt gtc	aca gat ttt att aat ttt	gat acg aga	3474
Phe Tyr Ile Asp Ser Val	Thr Asp Phe Ile Asn Phe	Asp Thr Arg	
1145	1150	1155	
gat gtt tat ctg gaa tta	ggc ccg tgg ttt acg	tat aat tcg ttt	3519
Asp Val Tyr Leu Glu Leu	Gly Pro Trp Phe Thr Tyr	Asn Ser Phe	
1160	1165	1170	
ggc ata caa ttt gct gaa	tat tct att aga cgt	aga tta gtt tcg	3564
Gly Ile Gln Phe Ala Glu	Tyr Ser Ile Arg Arg	Leu Val Ser	
1175	1180	1185	
tct aca aaa gaa aaa agt	atg gaa ata tgt tat	ata ata tta tcg	3609
Ser Thr Lys Glu Lys Ser	Met Glu Ile Cys Tyr	Ile Ile Leu Ser	
1190	1195	1200	
aaa ttg atg tgt tta tct	tcc gaa atg tat aat	ata aaa aga ata	3654
Lys Leu Met Cys Leu Ser	Ser Glu Met Tyr Asn	Ile Lys Arg Ile	
1205	1210	1215	
aga gag ggt aaa caa aat	gtt ata aaa tca gca	ata cat ggt agt	3699
Arg Glu Gly Lys Gln Asn	Val Ile Lys Ser Ala	Ile His Gly Ser	
1220	1225	1230	
tcg gat gct ata aca aca	gct gca tat aat aat	ata ata gat cca	3744
Ser Asp Ala Ile Thr Thr	Ala Ala Tyr Asn Asn	Ile Ile Asp Pro	
1235	1240	1245	
aac aat gat ata tat tct	caa ata tta tca agt	caa att atg aaa	3789
Asn Asn Asp Ile Tyr Ser	Gln Ile Leu Ser Ser	Gln Ile Met Lys	
1250	1255	1260	
tta gga cat gga tat tat	gat tgt tat tta aat	tta aat aga tat	3834
Leu Gly His Gly Tyr Tyr	Asp Cys Tyr Leu Asn	Leu Asn Arg Tyr	
1265	1270	1275	
gat tct att aac ata aat	tct gtc acc gaa caa	gat ata aat ata	3879
Asp Ser Ile Asn Ile Asn	Ser Val Thr Glu Gln	Asp Ile Asn Ile	
1280	1285	1290	
aca agt gaa ata att gaa	aat ttc taa		3906
Thr Ser Glu Ile Ile Glu	Asn Phe		
1295	1300		

<210> 61

<211> 483

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(483)

<223>

<400> 61

atg gaa aga agt tta caa att ata aat aat aca aca tct aca tta tct	48
Met Glu Arg Ser Leu Gln Ile Ile Asn Asn Thr Thr Ser Thr Leu Ser	
1 5 10 15	
aga ata aca tca cca atc gat aat att aga tat att ttt gat ctt att	96
Arg Ile Thr Ser Pro Ile Asp Asn Ile Arg Tyr Ile Phe Asp Leu Ile	
20 25 30	
aac aca agt ggt aat ggt gaa att acg gca gaa gaa tta cta aat ttt	144
Asn Thr Ser Gly Asn Gly Glu Ile Thr Ala Glu Glu Leu Leu Asn Phe	
35 40 45	
tta att gtt att gat cca act ata aat tta tct gat gtt cgt gcg tta	192
Leu Ile Val Ile Asp Pro Thr Ile Asn Leu Ser Asp Val Arg Ala Leu	
50 55 60	
att gcc aca tat gat ttg aat aat aac aat acg tta agt ttt gat gaa	240
Ile Ala Thr Tyr Asp Leu Asn Asn Asn Asn Thr Leu Ser Phe Asp Glu	
65 70 75 80	
ttt gtt cca ata ata ggt att aat ata act gat gaa aaa tta aga gaa	288
Phe Val Pro Ile Ile Gly Ile Asn Ile Thr Asp Glu Lys Leu Arg Glu	
85 90 95	
gca ttt gat tct ata aca act gat ggt gat gtc gat ctt gat aaa ttt	336
Ala Phe Asp Ser Ile Thr Thr Asp Gly Asp Val Asp Leu Asp Lys Phe	
100 105 110	
aga aca tat tat aat tta tta caa att act ccc ata tat aga cat act	384
Arg Thr Tyr Tyr Asn Leu Leu Gln Ile Thr Pro Ile Tyr Arg His Thr	
115 120 125	
aac gat caa tat ata gat ata ata att aga atg atc gga agt agt caa	432
Asn Asp Gln Tyr Ile Asp Ile Ile Ile Arg Met Ile Gly Ser Ser Gln	
130 135 140	
gaa gaa ttt ata gca ttt tgg aat tac ata aat act caa gta aat gga	480
Glu Glu Phe Ile Ala Phe Trp Asn Tyr Ile Asn Thr Gln Val Asn Gly	
145 150 155 160	
taa	483

<210> 62

<211> 540

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (540)

<223>

<400> 62

atg gac aat aat aca att act aaa cat att ggc tat aat act tta caa	48
Met Asp Asn Asn Thr Ile Thr Lys His Ile Gly Tyr Asn Thr Leu Gln	
1 5 10 15	

gtt gtt aca gaa att tct att caa tta gaa agc aaa caa ata aat aat	96
Val Val Thr Glu Ile Ser Ile Gln Leu Glu Ser Lys Gln Ile Asn Asn	
20 25 30	

aat att aga caa gaa att gta tca aat ata aaa aat aat ata ata aat	144
Asn Ile Arg Gln Glu Ile Val Ser Asn Ile Lys Asn Asn Ile Ile Asn	
35 40 45	

aaa act agc ggt gtt aat tat att tta tca gtt gat tat caa tca ata	192
Lys Thr Ser Gly Val Asn Tyr Ile Leu Ser Val Asp Tyr Gln Ser Ile	
50 55 60	

tta aat aat gaa tta cca tta tta aga tta aat aat gta tat aca caa	240
Leu Asn Asn Glu Leu Pro Leu Leu Arg Leu Asn Asn Val Tyr Thr Gln	
65 70 75 80	

gaa tta gtt gtt aaa tta ccc gta aca tat cta tat ttt aca aaa aat	288
Glu Leu Val Val Lys Leu Pro Val Thr Tyr Leu Tyr Phe Thr Lys Asn	
85 90 95	

caa ata ata aaa gct tat ttg aca att att gaa gga gat aat cca cat	336
Gln Ile Ile Lys Ala Tyr Leu Thr Ile Ile Glu Gly Asp Asn Pro His	
100 105 110	

gta gtt gca tat aac aaa tat ata tat tgt aat ata att tta gat cat	384
Val Val Ala Tyr Asn Lys Tyr Ile Tyr Cys Asn Ile Ile Leu Asp His	
115 120 125	

aat ttc act ata aat atg tca gaa aaa tta tta ata ttt aag aac aaa	432
Asn Phe Thr Ile Asn Met Ser Glu Lys Leu Leu Ile Phe Lys Asn Lys	
130 135 140	

gaa tat aaa aat aga gat gaa tgt tat gta aaa ata atc gat ata tat 480
 Glu Tyr Lys Asn Arg Asp Glu Cys Tyr Val Lys Ile Ile Asp Ile Tyr
 145 150 155 160

agt tca gaa aaa aat aat aaa ata cca tgc aaa ggt att ttg caa gac 528
 Ser Ser Glu Lys Asn Asn Lys Ile Pro Cys Lys Gly Ile Leu Gln Asp
 165 170 175

gaa gaa ata taa 540
 Glu Glu Ile

<210> 63

<211> 735

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(735)

<223>

<400> 63
 atg aat aac att tca tat aaa aat ttt atc gaa aat ata cca gaa aaa 48
 Met Asn Asn Ile Ser Tyr Lys Asn Phe Ile Glu Asn Ile Pro Glu Lys
 1 5 10 15

tgg tta gat gtg ata gat aaa aaa caa tta gaa tat gct cat cat aaa 96
 Trp Leu Asp Val Ile Asp Lys Lys Gln Leu Glu Tyr Ala His His Lys
 20 25 30

tta aaa aat gaa tct att att aaa cca tct ata aat aat ata ttt aaa 144
 Leu Lys Asn Glu Ser Ile Ile Lys Pro Ser Ile Asn Asn Ile Phe Lys
 35 40 45

tgt ttt aaa tat ttt aat ccc gat caa gtt aaa gta att att tta ggt 192
 Cys Phe Lys Tyr Phe Asn Pro Asp Gln Val Lys Val Ile Ile Leu Gly
 50 55 60

cag gat cct tat cct act gtt gga atg gct gat ggt tta gca ttt tcc 240
 Gln Asp Pro Tyr Pro Thr Val Gly Met Ala Asp Gly Leu Ala Phe Ser
 65 70 75 80

tgt tct aat aat agt aat tat att cct aaa tct tta caa aac ata ata 288
 Cys Ser Asn Asn Ser Asn Tyr Ile Pro Lys Ser Leu Gln Asn Ile Ile

85	90	95	
aaa gaa ata tta aaa caa aat aaa aaa tat gat atg atg aaa aat att			336
Lys Glu Ile Leu Lys Gln Asn Lys Lys Tyr Asp Met Met Lys Asn Ile			
100	105	110	
aat atg aat tat att aat gta aat cta gaa ttt tta gcg aaa caa caa			384
Asn Met Asn Tyr Ile Asn Val Asn Leu Glu Phe Leu Ala Lys Gln Gln			
115	120	125	
att tta tta ttt aat acg ata ttg aca gtt ggt gat gag cca atg tca			432
Ile Leu Leu Phe Asn Thr Ile Leu Thr Val Gly Asp Glu Pro Met Ser			
130	135	140	
cac aaa cat att tgg gaa tca ttt tca aat tct att att aaa aaa tta			480
His Lys His Ile Trp Glu Ser Phe Ser Asn Ser Ile Ile Lys Lys Leu			
145	150	155	160
tca tta att aat aat aat ata gta ttt ata tta ttt ggt gca aaa gct			528
Ser Leu Ile Asn Asn Asn Ile Val Phe Ile Leu Phe Gly Ala Lys Ala			
165	170	175	
cat aat aaa att tat ttt atc gaa aat aaa aaa aat cat tgt att atc			576
His Asn Lys Ile Tyr Phe Ile Glu Asn Lys Lys Asn His Cys Ile Ile			
180	185	190	
aaa aca agt cat cct tct aat tta tct tgt tat aaa gat gga tat gat			624
Lys Thr Ser His Pro Ser Asn Leu Ser Cys Tyr Lys Asp Gly Tyr Asp			
195	200	205	
aaa tat gtt cct ttt aat aat tca gat tgt ttt aat att tgt aac gaa			672
Lys Tyr Val Pro Phe Asn Asn Ser Asp Cys Phe Asn Ile Cys Asn Glu			
210	215	220	
tat ctt ata aaa aat aat ata aaa ccg ata gat tgg tta tct gaa tta			720
Tyr Leu Ile Lys Asn Asn Ile Lys Pro Ile Asp Trp Leu Ser Glu Leu			
225	230	235	240
ata aaa aat aat taa			735
Ile Lys Asn Asn			

<210> 64

<211> 714

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (714)

<223>

<400> 64

atg gaa aat tat gat ttt aaa att gat aaa tat act cat ata gga aat	48
Met Glu Asn Tyr Asp Phe Lys Ile Asp Lys Tyr Thr His Ile Gly Asn	
1 5 10 15	
cgt agt tat aac gat gat tat ata ttt ata aaa aaa aat ata aat tat	96
Arg Ser Tyr Asn Asp Asp Tyr Ile Phe Ile Lys Lys Asn Ile Asn Tyr	
20 25 30	
atc atg ttt gta ata att gac gga cac gga ggt tca gaa tgt tct aaa	144
Ile Met Phe Val Ile Ile Asp Gly His Gly Gly Ser Glu Cys Ser Lys	
35 40 45	
ata ttt ata aaa tta ttt aat aaa aat ttt aat cca aaa cca tat gta	192
Ile Phe Ile Lys Leu Phe Asn Lys Asn Phe Asn Pro Lys Pro Tyr Val	
50 55 60	
gat att gga tta tat ata aaa aat tta ttt ata aaa att aat aaa aca	240
Asp Ile Gly Leu Tyr Ile Lys Asn Leu Phe Ile Lys Ile Asn Lys Thr	
65 70 75 80	
att tta aat aat aaa att aca tct gga gca tgt gta tct ggt att tat	288
Ile Leu Asn Asn Lys Ile Thr Ser Gly Ala Cys Val Ser Gly Ile Tyr	
85 90 95	
att gat aat aat aaa aca ata ata ttt caa tta gga gat aca aaa ata	336
Ile Asp Asn Asn Lys Thr Ile Ile Phe Gln Leu Gly Asp Thr Lys Ile	
100 105 110	
tat tta tat aat aac aat aaa tta aca tat gaa aca ata caa cat gat	384
Tyr Leu Tyr Asn Asn Asn Lys Leu Thr Tyr Glu Thr Ile Gln His Asp	
115 120 125	
ata tca aat aaa tac gaa aga aat aaa ttt ttt aaa gat ttt att tat	432
Ile Ser Asn Lys Tyr Glu Arg Asn Lys Phe Phe Lys Asp Phe Ile Tyr	
130 135 140	
tca gat att cca aga tta ttt gga aag tta aca gtt aca agg gca ata	480
Ser Asp Ile Pro Arg Leu Phe Gly Lys Leu Thr Val Thr Arg Ala Ile	
145 150 155 160	
gga aat ttt gat tta aat ata aaa tat ata cct aaa ata gat tat att	528
Gly Asn Phe Asp Leu Asn Ile Lys Tyr Ile Pro Lys Ile Asp Tyr Ile	
165 170 175	
tct aat aat agt tat aat aaa att att tta tgc aca gat gga gtg tat	576
Ser Asn Asn Ser Tyr Asn Lys Ile Ile Leu Cys Thr Asp Gly Val Tyr	
180 185 190	
aaa aaa ata aat ata aat atc gat gat act gct aaa gaa aat att aat	624
Lys Lys Ile Asn Ile Asn Ile Asp Asp Thr Ala Lys Glu Asn Ile Asn	

195	200	205	
aaa tgt tta aaa aat cct cct aat gat aat atg act atg atg att ata			672
Lys Cys Leu Lys Asn Pro Pro Asn Asp Asn Met Thr Met Met Ile Ile			
210	215	220	
aat tta tca aat ata tta cat tta ata aat aaa aac ata taa			714
Asn Leu Ser Asn Ile Leu His Leu Ile Asn Lys Asn Ile			
225	230	235	
<210> 65			
<211> 474			
<212> DNA			
<213> Amsacta moorei entomopoxvirus			
<220>			
<221> exon			
<222> (1)..(474)			
<223>			
<400> 65			
atg tta cct tat aaa tgg aat aat tat ttt gca cac gga act ata ata			48
Met Leu Pro Tyr Lys Trp Asn Asn Tyr Phe Ala His Gly Thr Ile Ile			
1	5	10	15
aag tgt ata aat aca ata tgt ttc aaa ctt ccg tgc aat ggt act gaa			96
Lys Cys Ile Asn Thr Ile Cys Phe Lys Leu Pro Cys Asn Gly Thr Glu			
20	25	30	
tgg gat ata tgt aaa tta ata aat act ttt cct aat tta aaa att gta			144
Trp Asp Ile Cys Lys Leu Ile Asn Thr Phe Pro Asn Leu Lys Ile Val			
35	40	45	
ata gat ttt aga tat tca gaa aca tgt tat aat cca tct gat ctt aat			192
Ile Asp Phe Arg Tyr Ser Glu Thr Cys Tyr Asn Pro Ser Asp Leu Asn			
50	55	60	
aaa tta ggt ata gaa tat ata aaa ata cca ata aaa gca caa tct tta			240
Lys Leu Gly Ile Glu Tyr Ile Lys Ile Pro Ile Lys Ala Gln Ser Leu			
65	70	75	80
cca aca gat gat aaa ata aat aaa ttt ttt aat att att gat aaa tat			288
Pro Thr Asp Asp Lys Ile Asn Lys Phe Phe Asn Ile Ile Asp Lys Tyr			
85	90	95	
att gaa tta aaa tat tta ata gga ata cat tgt act cat ggc att aat			336

```

Ile Glu Leu Lys Tyr Leu Ile Gly Ile His Cys Thr His Gly Ile Asn
      100                      105                      110

aga act gga tat atg gtt tgt aaa tac tta ata tat aaa ttt aaa att      384
Arg Thr Gly Tyr Met Val Cys Lys Tyr Leu Ile Tyr Lys Phe Lys Ile
      115                      120                      125

cca cct tat gtt gct ata aat att ttc gaa aaa aat aga gga tat tat      432
Pro Pro Tyr Val Ala Ile Asn Ile Phe Glu Lys Asn Arg Gly Tyr Tyr
      130                      135                      140

ata gaa aga gaa ata tat ata aat aat tta tta tat ttt taa      474
Ile Glu Arg Glu Ile Tyr Ile Asn Asn Leu Leu Tyr Phe
145                      150                      155

<210> 66

<211> 870

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (870)

<223>

<400> 66
atg gaa aat tat cat att att ata tta aca att aaa aga aat tct gac      48
Met Glu Asn Tyr His Ile Ile Ile Leu Thr Ile Lys Arg Asn Ser Asp
1                      5                      10                      15

aga tta caa aaa cta gaa aat ata tta tct tgt caa aat tta tta tat      96
Arg Leu Gln Lys Leu Glu Asn Ile Leu Ser Cys Gln Asn Leu Leu Tyr
      20                      25                      30

aat aaa gat tat agt gta ttt tat gga ata gat tat aaa aat ata aat      144
Asn Lys Asp Tyr Ser Val Phe Tyr Gly Ile Asp Tyr Lys Asn Ile Asn
      35                      40                      45

aaa aat aat tta aaa aat ata tgt aaa aaa gga ttt aaa aac aca tgt      192
Lys Asn Asn Leu Lys Asn Ile Cys Lys Lys Gly Phe Lys Asn Thr Cys
      50                      55                      60

cct tat tca act tta gca tgt gcg tca tca cat att cta tta tgg aaa      240
Pro Tyr Ser Thr Leu Ala Cys Ala Ser Ser His Ile Leu Leu Trp Lys
65                      70                      75                      80

```

tat ata tca aaa tta aaa gat aaa tat aaa tat att ata ata tta gaa	288
Tyr Ile Ser Lys Leu Lys Asp Lys Tyr Lys Tyr Ile Ile Ile Leu Glu	
85 90 95	
gat gat aca tat ata aat gta tca gag tat aat aaa cat aca aat aca	336
Asp Asp Thr Tyr Ile Asn Val Ser Glu Tyr Asn Lys His Thr Asn Thr	
100 105 110	
gtt gaa gaa tta tta aaa aat aat agt ata gta ttt tta tat tct gat	384
Val Glu Glu Leu Leu Lys Asn Asn Ser Ile Val Phe Leu Tyr Ser Asp	
115 120 125	
tgt tat ata atg gga act acc atc aaa tca acc aac aat gat aca aaa	432
Cys Tyr Ile Met Gly Thr Thr Ile Lys Ser Thr Asn Asn Asp Thr Lys	
130 135 140	
ata aca tat aat cca aag ttt cac gtt tcg atg ggt tgt tat tgt ata	480
Ile Thr Tyr Asn Pro Lys Phe His Val Ser Met Gly Cys Tyr Cys Ile	
145 150 155 160	
aca cca atc act gct act aaa tta tat tat ttc tat ata aaa tct aga	528
Thr Pro Ile Thr Ala Thr Lys Leu Tyr Tyr Phe Tyr Ile Lys Ser Arg	
165 170 175	
gta tgg ttc cac ata gat ttt caa tta aat ttt gat ata cat aat ata	576
Val Trp Phe His Ile Asp Phe Gln Leu Asn Phe Asp Ile His Asn Ile	
180 185 190	
tca tta aat aga tat att tat ata gct gct aat gta tgt aat caa tat	624
Ser Leu Asn Arg Tyr Ile Tyr Ile Ala Ala Asn Val Cys Asn Gln Tyr	
195 200 205	
gaa gga aat aaa tca tct atg ggt tta aaa cat aat aat ata atg tta	672
Glu Gly Asn Lys Ser Ser Met Gly Leu Lys His Asn Asn Ile Met Leu	
210 215 220	
ata cct ata gaa aat aca aaa tta atg aga ata ata tcg act cct att	720
Ile Pro Ile Glu Asn Thr Lys Leu Met Arg Ile Ile Ser Thr Pro Ile	
225 230 235 240	
ata aga gtt aat gaa gct gaa ata gat ttt tat ata ata ata atg tta	768
Ile Arg Val Asn Glu Ala Glu Ile Asp Phe Tyr Ile Ile Ile Met Leu	
245 250 255	
atc tca ctt atc gct agt tta tat ttc ttt ggt ttt aat att tct gcc	816
Ile Ser Leu Ile Ala Ser Leu Tyr Phe Phe Gly Phe Asn Ile Ser Ala	
260 265 270	
tta ata ttt tta tta ttt ata gta gta gat gtt gcg gag aat gca aaa	864
Leu Ile Phe Leu Leu Phe Ile Val Val Asp Val Ala Glu Asn Ala Lys	
275 280 285	
aaa taa	870
Lys	

<210> 67

<211> 1830

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1830)

<223>

<400> 67

atg aat ata aaa tta tta aaa aat gga atg cga att att aat aat aat	48
Met Asn Ile Lys Leu Leu Lys Asn Gly Met Arg Ile Ile Asn Asn Asn	
1 5 10 15	

ttt gat aat aat aat tta ata aat ata tct ata aat aat ttt ggt caa	96
Phe Asp Asn Asn Asn Leu Ile Asn Ile Ser Ile Asn Asn Phe Gly Gln	
20 25 30	

aat tta tca ata tat tat aag aat tat aag tta ata cat ctc ata gaa	144
Asn Leu Ser Ile Tyr Tyr Lys Asn Tyr Lys Leu Ile His Leu Ile Glu	
35 40 45	

cat ata tta gta tca atg cta ata gta tat aca ggt gaa tta tca ttt	192
His Ile Leu Val Ser Met Leu Ile Val Tyr Thr Gly Glu Leu Ser Phe	
50 55 60	

tgg aac gga tat aca aat tca aat aat att aat ata tat tat aat aat	240
Trp Asn Gly Tyr Thr Asn Ser Asn Asn Ile Asn Ile Tyr Tyr Asn Asn	
65 70 75 80	

ata atg aat ata tca cat aat aaa ata att gat gcg ata ctt cgt tta	288
Ile Met Asn Ile Ser His Asn Lys Ile Ile Asp Ala Ile Leu Arg Leu	
85 90 95	

ttt aat aaa aat ggt att ttt gtt gat gaa aat ata ata aat tat aaa	336
Phe Asn Lys Asn Gly Ile Phe Val Asp Glu Asn Ile Ile Asn Tyr Lys	
100 105 110	

ttt tta gaa aat gaa aat aaa ata tta aat aat gaa aaa aat ttt aga	384
Phe Leu Glu Asn Glu Asn Lys Ile Leu Asn Asn Glu Lys Asn Phe Arg	
115 120 125	

tta tta aca gat aaa tat gaa ata aat cct ata tta tat ctt tta aca	432
Leu Leu Thr Asp Lys Tyr Glu Ile Asn Pro Ile Leu Tyr Leu Leu Thr	
130 135 140	

aat gat gtt tat tta gaa gaa aat aat caa aaa ata ata tct gat gtt	480
Asn Asp Val Tyr Leu Glu Glu Asn Asn Gln Lys Ile Ile Ser Asp Val	
145 150 155 160	
aaa ttt att aat gat gta ttg tcg gat att aat gtg tca gat att ata	528
Lys Phe Ile Asn Asp Val Leu Ser Asp Ile Asn Val Ser Asp Ile Ile	
165 170 175	
ttt tat act tca aat aca gat ttt ttt aat ata tta tat ccg cga tta	576
Phe Tyr Thr Ser Asn Thr Asp Phe Phe Asn Ile Leu Tyr Pro Arg Leu	
180 185 190	
gat aaa ata att ttt aat aaa act aaa aat aaa aaa aat aaa ttt cta	624
Asp Lys Ile Ile Phe Asn Lys Thr Lys Asn Lys Lys Asn Lys Phe Leu	
195 200 205	
aca tta ccc att tat aaa tct agt ttt aaa aat agt ata tat tta ttt	672
Thr Leu Pro Ile Tyr Lys Ser Ser Phe Lys Asn Ser Ile Tyr Leu Phe	
210 215 220	
tct ttc gat caa aat aat aga tat tat agt ata act att aaa ttt aat	720
Ser Phe Asp Gln Asn Asn Arg Tyr Tyr Ser Ile Thr Ile Lys Phe Asn	
225 230 235 240	
tta tta aaa tat gtt ata att gga tat atg att gat aaa tat tat tat	768
Leu Leu Lys Tyr Val Ile Ile Gly Tyr Met Ile Asp Lys Tyr Tyr Tyr	
245 250 255	
aat aaa tta gta tta atc aat ata tta tcc gat aaa tta tta tct tta	816
Asn Lys Leu Val Leu Ile Asn Ile Leu Ser Asp Lys Leu Leu Ser Leu	
260 265 270	
act ata tat ttt tta aca agt gaa tat atg tat aaa tca tta aat tat	864
Thr Ile Tyr Phe Leu Thr Ser Glu Tyr Met Tyr Lys Ser Leu Asn Tyr	
275 280 285	
ttt gaa act ata gat tat tct aaa ata aaa aaa tta gaa ttt gat gat	912
Phe Glu Thr Ile Asp Tyr Ser Lys Ile Lys Lys Leu Glu Phe Asp Asp	
290 295 300	
tat gta ata tta aat gaa tat ttt gat att ata aat att tat aat aat	960
Tyr Val Ile Leu Asn Glu Tyr Phe Asp Ile Ile Asn Ile Tyr Asn Asn	
305 310 315 320	
ata aaa agt aat aat ata aat aaa tat tat tct tat tat aat aaa tat	1008
Ile Lys Ser Asn Asn Ile Asn Lys Tyr Tyr Ser Tyr Tyr Asn Lys Tyr	
325 330 335	
att gat tat att ata aat tca tct aca gat ata aat aaa ttt ttt tta	1056
Ile Asp Tyr Ile Ile Asn Ser Ser Thr Asp Ile Asn Lys Phe Phe Leu	
340 345 350	
caa ata cct aat caa cta tat tta aat aat gaa ttt gat att aat aat	1104
Gln Ile Pro Asn Gln Leu Tyr Leu Asn Asn Glu Phe Asp Ile Asn Asn	
355 360 365	
att cct gtt ttt aaa gca gaa aca tta ttt aat agt aaa ata aac aca	1152

Ile	Pro	Val	Phe	Lys	Ala	Glu	Thr	Leu	Phe	Asn	Ser	Lys	Ile	Asn	Thr		
370						375				380							
aat	aat	aaa	aat	aaa	ata	aca	aat	att	aat	aat	ata	gaa	ata	tta	aat	1200	
Asn	Asn	Lys	Asn	Lys	Ile	Thr	Asn	Ile	Asn	Asn	Ile	Glu	Ile	Leu	Asn		
385					390				395						400		
ttt	aat	ggt	aat	aat	atg	ata	ttt	ttt	atg	aat	ggt	att	gaa	gat	aaa	1248	
Phe	Asn	Val	Asn	Asn	Met	Ile	Phe	Phe	Met	Asn	Val	Ile	Glu	Asp	Lys		
				405					410					415			
ttt	gaa	ata	aaa	aat	aat	gaa	ata	att	ata	aaa	aat	aca	aaa	aat	ata	1296	
Phe	Glu	Ile	Lys	Asn	Asn	Glu	Ile	Ile	Ile	Lys	Asn	Thr	Lys	Asn	Ile		
			420					425						430			
tat	aaa	tca	gat	aat	aat	ata	tgt	gtg	ctt	aat	aat	aat	tat	aat	tat	1344	
Tyr	Lys	Ser	Asp	Asn	Asn	Ile	Cys	Val	Leu	Asn	Asn	Asn	Tyr	Asn	Tyr		
		435					440					445					
cct	aaa	ata	tat	ttt	tat	tat	aaa	tat	ttt	ata	att	tac	ttt	ttt	tct	1392	
Pro	Lys	Ile	Tyr	Phe	Tyr	Tyr	Lys	Tyr	Phe	Ile	Ile	Tyr	Phe	Phe	Ser		
	450					455					460						
aat	ata	ttt	tta	aat	att	gac	gat	gct	ata	gaa	tat	gta	aaa	tat	aaa	1440	
Asn	Ile	Phe	Leu	Asn	Ile	Asp	Asp	Ala	Ile	Glu	Tyr	Val	Lys	Tyr	Lys		
465					470					475					480		
cct	tat	ttt	aat	tta	tta	aat	aat	att	aat	gta	gaa	aat	aat	ttt	aac	1488	
Pro	Tyr	Phe	Asn	Leu	Leu	Asn	Asn	Ile	Asn	Val	Glu	Asn	Asn	Phe	Asn		
				485					490					495			
aca	aat	ata	tta	ata	aat	aat	aaa	aaa	ata	aac	ata	aat	aca	aat	cat	1536	
Thr	Asn	Ile	Leu	Ile	Asn	Asn	Lys	Lys	Ile	Asn	Ile	Asn	Thr	Asn	His		
			500					505					510				
gat	ttc	ata	aca	gca	tta	tac	ata	tat	aat	tgt	aat	aat	aaa	aat	tgt	1584	
Asp	Phe	Ile	Thr	Ala	Leu	Tyr	Ile	Tyr	Asn	Cys	Asn	Asn	Lys	Asn	Cys		
		515					520					525					
tat	ata	cat	atg	gct	act	att	tca	gat	ata	tta	aga	gat	ctc	gga	tta	1632	
Tyr	Ile	His	Met	Ala	Thr	Ile	Ser	Asp	Ile	Leu	Arg	Asp	Leu	Gly	Leu		
		530				535					540						
ata	tac	acc	cct	att	att	aat	ttt	gaa	aat	aat	cta	ggt	tat	tta	ttt	1680	
Ile	Tyr	Thr	Pro	Ile	Ile	Asn	Phe	Glu	Asn	Asn	Leu	Val	Tyr	Leu	Phe		
545					550					555					560		
ata	ata	aca	aat	aaa	cca	cat	gaa	act	gaa	ata	cat	tta	aga	aaa	ata	1728	
Ile	Ile	Thr	Asn	Lys	Pro	His	Glu	Thr	Glu	Ile	His	Leu	Arg	Lys	Ile		
				565					570					575			
tta	aat	gat	aaa	ttt	aat	gta	aat	aat	ggt	att	aca	ata	ata	tca	aca	1776	
Leu	Asn	Asp	Lys	Phe	Asn	Val	Asn	Asn	Val	Ile	Thr	Ile	Ile	Ser	Thr		
			580					585					590				
aaa	gga	aac	tat	aac	act	aaa	gaa	tta	tta	aat	aaa	tac	ata	acc	ttc	1824	
Lys	Gly	Asn	Tyr	Asn	Thr	Lys	Glu	Leu	Leu	Asn	Lys	Tyr	Ile	Thr	Phe		

595 600 605 1830

aat taa
Asn

<210> 68

<211> 741

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(741)

<223>

<400> 68

atg gga gcg tcc gca agt att aat act att gtg tct gat ata act aat	48
Met Gly Ala Ser Ala Ser Ile Asn Thr Ile Val Ser Asp Ile Thr Asn	
1 5 10 15	
aga gtt gaa aat tca tta att caa aca gca aat gcc tct gca caa gca	96
Arg Val Glu Asn Ser Leu Ile Gln Thr Ala Asn Ala Ser Ala Gln Ala	
20 25 30	
ata tgt cga gta aca att gga agt att agt ttt aga tcc aca cag gga	144
Ile Cys Arg Val Thr Ile Gly Ser Ile Ser Phe Arg Ser Thr Gln Gly	
35 40 45	
tgt act ata gag gta aga aat tta tgt agt gcg caa gct gta gca caa	192
Cys Thr Ile Glu Val Arg Asn Leu Cys Ser Ala Gln Ala Val Ala Gln	
50 55 60	
gtt gac gct gta gta aat gca act att gat ttt tat aat aat tta act	240
Val Asp Ala Val Val Asn Ala Thr Ile Asp Phe Tyr Asn Asn Leu Thr	
65 70 75 80	
ttt gaa caa aaa caa gaa gca cct acg tgg ttt aca gta gct tat gga	288
Phe Glu Gln Lys Gln Glu Ala Pro Thr Trp Phe Thr Val Ala Tyr Gly	
85 90 95	
ata aat act act gta act act atc gaa aat gat ttt aga aat tta gtt	336
Ile Asn Thr Thr Val Thr Thr Ile Glu Asn Asp Phe Arg Asn Leu Val	
100 105 110	
gaa caa aga tgt aaa tct caa gct gtt tta gat agt agc ata aca gtt	384

Glu	Gln	Arg	Cys	Lys	Ser	Gln	Ala	Val	Leu	Asp	Ser	Ser	Ile	Thr	Val		
	115						120					125					
gat	aat	att	tta	gtt	aat	gat	tgt	aga	gca	cca	gga	aat	gaa	ata	gtt	432	
Asp	Asn	Ile	Leu	Val	Asn	Asp	Cys	Arg	Ala	Pro	Gly	Asn	Glu	Ile	Val		
	130					135					140						
aga	ttt	aca	ttt	gtt	aat	tct	gga	acg	gct	gct	gga	caa	tgt	gca	ata	480	
Arg	Phe	Thr	Phe	Val	Asn	Ser	Gly	Thr	Ala	Ala	Gly	Gln	Cys	Ala	Ile		
	145				150				155					160			
tct	gct	cta	tta	gat	tta	caa	gta	gcg	ggt	tct	aat	caa	gta	agt	gct	528	
Ser	Ala	Leu	Leu	Asp	Leu	Gln	Val	Ala	Gly	Ser	Asn	Gln	Val	Ser	Ala		
				165				170					175				
agt	caa	agt	caa	ggt	tta	aat	ata	gga	aat	ata	ata	tta	tat	gta	gca	576	
Ser	Gln	Ser	Gln	Gly	Leu	Asn	Ile	Gly	Asn	Ile	Ile	Leu	Tyr	Val	Ala		
			180					185					190				
ata	gca	att	att	gtt	att	gca	ata	tca	tat	gtt	tta	ata	aaa	ttt	ttt	624	
Ile	Ala	Ile	Ile	Val	Ile	Ala	Ile	Ser	Tyr	Val	Leu	Ile	Lys	Phe	Phe		
		195				200						205					
ggt	aat	aaa	cca	aca	ata	aaa	caa	caa	att	agt	tta	gaa	tta	gct	aaa	672	
Gly	Asn	Lys	Pro	Thr	Ile	Lys	Gln	Gln	Ile	Ser	Leu	Glu	Leu	Ala	Lys		
	210					215					220						
aat	gga	gca	gtg	tct	agt	caa	tta	ata	caa	tta	tcg	aga	tat	gta	tct	720	
Asn	Gly	Ala	Val	Ser	Ser	Gln	Leu	Ile	Gln	Leu	Ser	Arg	Tyr	Val	Ser		
	225				230				235					240			
aaa	ata	gat	gat	aga	gat	tga										741	
Lys	Ile	Asp	Asp	Arg	Asp												
				245													

<210> 69

<211> 831

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (831)

<223>

<400> 69

atg act tta gtt aaa cat aat acg atg cat aat ttt tta cat tca aaa	48
Met Thr Leu Val Lys His Asn Thr Met His Asn Phe Leu His Ser Lys	
1 5 10 15	
tca aat ata tct gaa tta gat tat agt att gaa tct tcg tca gaa aga	96
Ser Asn Ile Ser Glu Leu Asp Tyr Ser Ile Glu Ser Ser Ser Glu Arg	
20 25 30	
aga gat ata att ata aaa aaa tac gat aca tta aat ata aaa aat tat	144
Arg Asp Ile Ile Ile Lys Lys Tyr Asp Thr Leu Asn Ile Lys Asn Tyr	
35 40 45	
aat aga aaa aca agt ttt aat gct ata tta ata aca agc gat aat aaa	192
Asn Arg Lys Thr Ser Phe Asn Ala Ile Leu Ile Thr Ser Asp Asn Lys	
50 55 60	
att att att gca gaa aga aaa ttt agc tat tat atg gac aca ata tat	240
Ile Ile Ile Ala Glu Arg Lys Phe Ser Tyr Tyr Met Asp Thr Ile Tyr	
65 70 75 80	
ata ata tct aca tat aaa aat ata tct gat gat ata tta gaa aca ttt	288
Ile Ile Ser Thr Tyr Lys Asn Ile Ser Asp Asp Ile Leu Glu Thr Phe	
85 90 95	
att aaa tta ttt gat aaa tta act aat aaa gaa aaa tat aat ata tat	336
Ile Lys Leu Phe Asp Lys Leu Thr Asn Lys Glu Lys Tyr Asn Ile Tyr	
100 105 110	
aat aaa aaa aga ata aat aaa aaa tat att tca att ata aat ttt att	384
Asn Lys Lys Arg Ile Asn Lys Lys Tyr Ile Ser Ile Ile Asn Phe Ile	
115 120 125	
gaa gta tat ttc gat ggt aat ata aat cat aaa tat tta caa tat tta	432
Glu Val Tyr Phe Asp Gly Asn Ile Asn His Lys Tyr Leu Gln Tyr Leu	
130 135 140	
tat aat gta aaa tct aga att ata tta aat aat aat ttt aga tac aga	480
Tyr Asn Val Lys Ser Arg Ile Ile Leu Asn Asn Asn Phe Arg Tyr Arg	
145 150 155 160	
gat aaa ttt tta att tta cct ggt ggt aaa aaa aat aat aat gaa aat	528
Asp Lys Phe Leu Ile Leu Pro Gly Gly Lys Lys Asn Asn Asn Glu Asn	
165 170 175	
att aat gaa gtt ata agt cga gaa tca cac gaa gaa ata aat att cct	576
Ile Asn Glu Val Ile Ser Arg Glu Ser His Glu Glu Ile Asn Ile Pro	
180 185 190	
ata aat aat caa gat aat aat aat att gat ata atg caa gac tat tat	624
Ile Asn Asn Gln Asp Asn Asn Asn Ile Asp Ile Met Gln Asp Tyr Tyr	
195 200 205	
tca gaa act ata ata ttt gat aaa ata ctt tca aaa aaa ttt att gat	672
Ser Glu Thr Ile Ile Phe Asp Lys Ile Leu Ser Lys Lys Phe Ile Asp	
210 215 220	
gtt act att ata gca aaa atc aaa tat agt tct att caa ata tta aat	720

Trisequences:UF\UF-221C1XC1\seq1-80-exon-w-prtn.ST25.doc\DNB.mv

aaa aga aga aat gac aga ata aaa ata ttt tta aaa gta gaa aat aaa	288
Lys Arg Arg Asn Asp Arg Ile Lys Ile Phe Leu Lys Val Glu Asn Lys	
85 90 95	
ata cct aaa ata gaa aaa tat att aat aaa gaa ttg aat ata ttc aaa	336
Ile Pro Lys Ile Glu Lys Tyr Ile Asn Lys Glu Leu Asn Ile Phe Lys	
100 105 110	
aaa aat ggt agt aat tca tca cac ata tac ata act gat aaa atg att	384
Lys Asn Gly Ser Asn Ser Ser His Ile Tyr Ile Thr Asp Lys Met Ile	
115 120 125	
ttt gct att ata tta tta gta gaa atg tgt ttt ttt ata aga act gga	432
Phe Ala Ile Ile Leu Leu Val Glu Met Cys Phe Phe Ile Arg Thr Gly	
130 135 140	
aaa aaa aaa tat tta gaa gat aat gaa act atc gga tta ttg aca tta	480
Lys Lys Lys Tyr Leu Glu Asp Asn Glu Thr Ile Gly Leu Leu Thr Leu	
145 150 155 160	
caa aaa aat aat ttt aca ata gaa aat gat gtt ata tat ata aat ttt	528
Gln Lys Asn Asn Phe Thr Ile Glu Asn Asp Val Ile Tyr Ile Asn Phe	
165 170 175	
aaa gga aaa tta tct caa aat caa aat ttt agc ata tta aaa gat gag	576
Lys Gly Lys Leu Ser Gln Asn Gln Asn Phe Ser Ile Leu Lys Asp Glu	
180 185 190	
cat tta tta ata tac aat atg att aaa ata tta tat aat aag act aat	624
His Leu Leu Ile Tyr Asn Met Ile Lys Ile Leu Tyr Asn Lys Thr Asn	
195 200 205	
gat ttt ata ttt aaa aat agt gat gat ata ata ttt aat gaa tct aaa	672
Asp Phe Ile Phe Lys Asn Ser Asp Asp Ile Ile Phe Asn Glu Ser Lys	
210 215 220	
tta tat tct atg att aaa caa ttt aat ata aag tta aaa gat ata aga	720
Leu Tyr Ser Met Ile Lys Gln Phe Asn Ile Lys Leu Lys Asp Ile Arg	
225 230 235 240	
aca ttt gga gtt aat aga gtt tta ata caa gaa ttg tgg aaa aat gtt	768
Thr Phe Gly Val Asn Arg Val Leu Ile Gln Glu Leu Trp Lys Asn Val	
245 250 255	
aga gat tta gat att atg gat att agg cat aaa gat ata aaa aaa ata	816
Arg Asp Leu Asp Ile Met Asp Ile Arg His Lys Asp Ile Lys Lys Ile	
260 265 270	
ata tca gaa gta gtt aaa aga aca gct aat ata att ggt cat aca cca	864
Ile Ser Glu Val Val Lys Arg Thr Ala Asn Ile Ile Gly His Thr Pro	
275 280 285	
act ata tcc aaa aat agt tat ata gta gat gaa ata aga tct ata ata	912
Thr Ile Ser Lys Asn Ser Tyr Ile Val Asp Glu Ile Arg Ser Ile Ile	
290 295 300	
gat aaa gat act ata aac aaa gct aaa gaa atg aca ttt gat gaa tat	960

Asp Lys Asp Thr Ile Asn Lys Ala Lys Glu Met Thr Phe Asp Glu Tyr
 305 310 315 320

tat aaa tat att gta gat aaa tta aaa gaa tta acc aat taa 1002
 Tyr Lys Tyr Ile Val Asp Lys Leu Lys Glu Leu Thr Asn
 325 330

<210> 71

<211> 1161

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1161)

<223>

<400> 71

atg ggt ggt aga gta agt ata tcg ttt ata aga cca gag aat aat aat 48
 Met Gly Gly Arg Val Ser Ile Ser Phe Ile Arg Pro Glu Asn Asn Asn
 1 5 10 15

aat gga aat aaa aat tta tta ata ggt tta agt gat aat aac ata gtt 96
 Asn Gly Asn Lys Asn Leu Leu Ile Gly Leu Ser Asp Asn Asn Ile Val
 20 25 30

aga gtt ccg atg ttt gaa caa att aat aga ata cca aga tcg gct tat 144
 Arg Val Pro Met Phe Glu Gln Ile Asn Arg Ile Pro Arg Ser Ala Tyr
 35 40 45

gaa aat ctc gac gaa tat gaa ata aat tat tgt att gga act cca ttt 192
 Glu Asn Leu Asp Glu Tyr Glu Ile Asn Tyr Cys Ile Gly Thr Pro Phe
 50 55 60

aat tct ttg gca gaa tgt gca tta tta ttt aat aat aat att ttg tct 240
 Asn Ser Leu Ala Glu Cys Ala Leu Leu Phe Asn Asn Asn Ile Leu Ser
 65 70 75 80

aat tat aca agc gaa tta gat aat tat gta ata act aac gaa gga tcg 288
 Asn Tyr Thr Ser Glu Leu Asp Asn Tyr Val Ile Thr Asn Glu Gly Ser
 85 90 95

ccg tgt act agt tta aca ttt agg ccg gga agt ata tta tat ggt aat 336
 Pro Cys Thr Ser Leu Thr Phe Arg Pro Gly Ser Ile Leu Tyr Gly Asn
 100 105 110

tca gaa tgg tta gaa ggt aga aca ttt gtt gga aat aaa tgt aaa ata	384
Ser Glu Trp Leu Glu Gly Arg Thr Phe Val Gly Asn Lys Cys Lys Ile	
115 120 125	
aga tat aga gga tat cca ata tat gaa aat gat ttg cgg gaa tgt tgt	432
Arg Tyr Arg Gly Tyr Pro Ile Tyr Glu Asn Asp Leu Arg Glu Cys Cys	
130 135 140	
act ggt aaa aga aca tct ggt tgt cac gaa aca tta ata aat aac ttt	480
Thr Gly Lys Arg Thr Ser Gly Cys His Glu Thr Leu Ile Asn Asn Phe	
145 150 155 160	
aca aca cca cat tgt aat gta aca atg caa aat ttt tgc aga caa aat	528
Thr Thr Pro His Cys Asn Val Thr Met Gln Asn Phe Cys Arg Gln Asn	
165 170 175	
ccg gaa gat tta tat tgc tat aga tgg atg tat agc caa tct aaa aca	576
Pro Glu Asp Leu Tyr Cys Tyr Arg Trp Met Tyr Ser Gln Ser Lys Thr	
180 185 190	
ttt gat att gct tta aaa tta tat tca gaa tta tgt agt ata gat cat	624
Phe Asp Ile Ala Leu Lys Leu Tyr Ser Glu Leu Cys Ser Ile Asp His	
195 200 205	
act aaa tta tat tgt gat tat atg tgt gtg tat gcg aga gaa aat gga	672
Thr Lys Leu Tyr Cys Asp Tyr Met Cys Val Tyr Ala Arg Glu Asn Gly	
210 215 220	
tat cca gga tat tgt gat gat tcg ttg tca aac tgg tgt aaa aat aat	720
Tyr Pro Gly Tyr Cys Asp Asp Ser Leu Ser Asn Trp Cys Lys Asn Asn	
225 230 235 240	
agt aat aat tcg tta tgt ttt tgt tat aat cct cct act gaa ttt ata	768
Ser Asn Asn Ser Leu Cys Phe Cys Tyr Asn Pro Pro Thr Glu Phe Ile	
245 250 255	
cca gat gtt gaa gaa gtt ttg ggt cca aaa gaa tgt tgg tta gcg cca	816
Pro Asp Val Glu Glu Val Leu Gly Pro Lys Glu Cys Trp Leu Ala Pro	
260 265 270	
tgt act gtc tct tat agt ggt caa aaa tgg tta aca acc aat cag atg	864
Cys Thr Val Ser Tyr Ser Gly Gln Lys Trp Leu Thr Thr Asn Gln Met	
275 280 285	
aat ata aaa aaa aat tgt aat ata caa tct tgt att ata acc ata gga	912
Asn Ile Lys Lys Asn Cys Asn Ile Gln Ser Cys Ile Ile Thr Ile Gly	
290 295 300	
tca ttg tta act aga ggt aat aat aaa att gat tta ata aat aat tgt	960
Ser Leu Leu Thr Arg Gly Asn Asn Lys Ile Asp Leu Ile Asn Asn Cys	
305 310 315 320	
ata aac aat tta aac gca agc aca gta ata aat tca gaa aat tta tca	1008
Ile Asn Asn Leu Asn Ala Ser Thr Val Ile Asn Ser Glu Asn Leu Ser	
325 330 335	
aat gtc act gat ata aaa ata aat caa aca tgg gga gta ttt ttc gat	1056

Asn Val Thr Asp Ile Lys Ile Asn Gln Thr Trp Gly Val Phe Phe Asp	
340 345 350	
cct gtt ata ttt att tta ata ata ttt ata ttt ata ttg ata ata tta	1104
Pro Val Ile Phe Ile Leu Ile Ile Phe Ile Phe Ile Leu Ile Ile Leu	
355 360 365	
tat ttt tat aat aaa aaa cca ata tat act att aat ata agt gaa act	1152
Tyr Phe Tyr Asn Lys Lys Pro Ile Tyr Thr Ile Asn Ile Ser Glu Thr	
370 375 380	
aat tta taa	1161
Asn Leu	
385	
<210> 72	
<211> 423	
<212> DNA	
<213> Amsacta moorei entomopoxvirus	
<220>	
<221> exon	
<222> (1) .. (423)	
<223>	
<400> 72	
atg tta agt aat tat gaa aat gat aat aaa atg ata gaa tat tgt aat	48
Met Leu Ser Asn Tyr Glu Asn Asp Asn Lys Met Ile Glu Tyr Cys Asn	
1 5 10 15	
aat aat aaa gat gat ata aaa tgt caa tgt tta ata gtg aat gat aat	96
Asn Asn Lys Asp Asp Ile Lys Cys Gln Cys Leu Ile Val Asn Asp Asn	
20 25 30	
atc gat gta ttt tca aaa tca tca tat gcg cca tat ttt tgt tgg tat	144
Ile Asp Val Phe Ser Lys Ser Ser Tyr Ala Pro Tyr Phe Cys Trp Tyr	
35 40 45	
tct gcg tgt aga aat aat gaa aac tat att act agt tta ata aaa agt	192
Ser Ala Cys Arg Asn Asn Glu Asn Tyr Ile Thr Ser Leu Ile Lys Ser	
50 55 60	
gaa caa caa tat tgt aat att aca gtg tgt gaa att agt gtt aca gat	240
Glu Gln Gln Tyr Cys Asn Ile Thr Val Cys Glu Ile Ser Val Thr Asp	
65 70 75 80	

ata gta tta aat gac aat gga aat tta act gta aca aac gaa tgt gct	288
Ile Val Leu Asn Asp Asn Gly Asn Leu Thr Val Thr Asn Glu Cys Ala	
85 90 95	
agt aac ata aat cct ata tat tca tta tct caa att ata gtt aat tta	336
Ser Asn Ile Asn Pro Ile Tyr Ser Leu Ser Gln Ile Ile Val Asn Leu	
100 105 110	
acg tca ttt gac ata cca aat tta ttt gta agt ttt ttt tat ccg ata	384
Thr Ser Phe Asp Ile Pro Asn Leu Phe Val Ser Phe Phe Tyr Pro Ile	
115 120 125	
gtt att att ata tca att tta ata ttt ttt aaa aaa taa	423
Val Ile Ile Ile Ser Ile Leu Ile Phe Phe Lys Lys	
130 135 140	

<210> 73

<211> 747

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1) .. (747)

<223>

<400> 73

atg aat gaa tcg caa tta caa acc aga aat agt agt att aat ata ggt	48
Met Asn Glu Ser Gln Leu Gln Thr Arg Asn Ser Ser Ile Asn Ile Gly	
1 5 10 15	
aga act ata ttt aat gac gta tat act aga ttt atc gat aaa tta aat	96
Arg Thr Ile Phe Asn Asp Val Tyr Thr Arg Phe Ile Asp Lys Leu Asn	
20 25 30	
aga ata tct agt aca aca aat att aat tgt aat ata aat ata aat gaa	144
Arg Ile Ser Ser Thr Thr Asn Ile Asn Cys Asn Ile Asn Ile Asn Glu	
35 40 45	
ata aga aca agt aat att aat aat tgt aat ata gtt tta agt aat aaa	192
Ile Arg Thr Ser Asn Ile Asn Asn Cys Asn Ile Val Leu Ser Asn Lys	
50 55 60	
tgt gtt agt aat gaa ata act agt ttt aca tta tta tta caa agt tta	240
Cys Val Ser Asn Glu Ile Thr Ser Phe Thr Leu Leu Leu Gln Ser Leu	
65 70 75 80	

gga gaa act atg tta cta tta cca gaa gac aga cgc aca caa ata gaa 288
 Gly Glu Thr Met Leu Leu Leu Pro Glu Asp Arg Arg Thr Gln Ile Glu
 85 90 95

aat ata tta gga ata tcc aca gat gat ata ata aat gaa aat gat act 336
 Asn Ile Leu Gly Ile Ser Thr Asp Asp Ile Ile Asn Glu Asn Asp Thr
 100 105 110

gga ttc ata aat aat tgt aga gca agt gca gta gtg gac aat agt ata 384
 Gly Phe Ile Asn Asn Cys Arg Ala Ser Ala Val Val Asp Asn Ser Ile
 115 120 125

aat atc ggt act ata gaa ata aat gat tgt tat tct aat ttt cct act 432
 Asn Ile Gly Thr Ile Glu Ile Asn Asp Cys Tyr Ser Asn Phe Pro Thr
 130 135 140

gat ttc tta ttt tta aat gcg ggt tct gcg gat gct aat tgt gga ata 480
 Asp Phe Leu Phe Leu Asn Ala Gly Ser Ala Asp Ala Asn Cys Gly Ile
 145 150 155 160

aaa tat ata tca gat gca tta cta aaa tta gat aat aga aaa cca gaa 528
 Lys Tyr Ile Ser Asp Ala Leu Leu Lys Leu Asp Asn Arg Lys Pro Glu
 165 170 175

tta tca ttg caa tta ttg ttt aat ata aaa atg ata gat tat ata ata 576
 Leu Ser Leu Gln Leu Leu Phe Asn Ile Lys Met Ile Asp Tyr Ile Ile
 180 185 190

ata tta ata act att tta tct ata tat ata tta ttt att ttt atg tca 624
 Ile Leu Ile Thr Ile Leu Ser Ile Tyr Ile Leu Phe Ile Phe Met Ser
 195 200 205

ttt tta ata cca aga aat aaa aaa tct atc tat tat tct aga aat act 672
 Phe Leu Ile Pro Arg Asn Lys Lys Ser Ile Tyr Tyr Ser Arg Asn Thr
 210 215 220

att ctt aat aaa aat gat aaa atc tta gaa aat att tat ttg aga cat 720
 Ile Leu Asn Lys Asn Asp Lys Ile Leu Glu Asn Ile Tyr Leu Arg His
 225 230 235 240

tac gat ggg atc aat aat ttt ata tga 747
 Tyr Asp Gly Ile Asn Asn Phe Ile
 245

<210> 74

<211> 1011

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(1011)

<223>

<400> 74

atg gga ggc agt gtt gac atc gaa gct aga tat act ggt tcc tct aat	48
Met Gly Gly Ser Val Asp Ile Glu Ala Arg Tyr Thr Gly Ser Ser Asn	
1 5 10 15	
ttt caa gaa aca tat ttg tca ttt tca aat tta att aat act ata tat	96
Phe Gln Glu Thr Tyr Leu Ser Phe Ser Asn Leu Ile Asn Thr Ile Tyr	
20 25 30	
ata tta aca aga gat gaa aga ata cca ata ggt ata ttt tca aac aat	144
Ile Leu Thr Arg Asp Glu Arg Ile Pro Ile Gly Ile Phe Ser Asn Asn	
35 40 45	
cct gat gat tac aga aat tat cga gga tat act gct ata ttt aaa cca	192
Pro Asp Asp Tyr Arg Asn Tyr Arg Gly Tyr Thr Ala Ile Phe Lys Pro	
50 55 60	
ggc gga tat aaa gaa tta ttg aaa gta aat gac tta gga ccc gat gac	240
Gly Gly Tyr Lys Glu Leu Leu Lys Val Asn Asp Leu Gly Pro Asp Asp	
65 70 75 80	
ttg tgt tgt att tat gat tgg aga tat gct tgg gtt gat gaa aat aat	288
Leu Cys Cys Ile Tyr Asp Trp Arg Tyr Ala Trp Val Asp Glu Asn Asn	
85 90 95	
ata tta tca caa aac gca agt gta aat aaa aat tta ttt acg tgc gat	336
Ile Leu Ser Gln Asn Ala Ser Val Asn Lys Asn Leu Phe Thr Cys Asp	
100 105 110	
cct aga act ata caa gta gga act aat aat att tgt gat aat tcg atg	384
Pro Arg Thr Ile Gln Val Gly Thr Asn Asn Ile Cys Asp Asn Ser Met	
115 120 125	
tat aga gct tgt ata tta gat ttt aat aat cat aga tat tta gaa gcg	432
Tyr Arg Ala Cys Ile Leu Asp Phe Asn Asn His Arg Tyr Leu Glu Ala	
130 135 140	
aaa tgt ggt gtt tgg tta gat ggt tta ttt aaa aga ttt gca aca gct	480
Lys Cys Gly Val Trp Leu Asp Gly Leu Phe Lys Arg Phe Ala Thr Ala	
145 150 155 160	
tca aat att ata aat aat aca aat aat ata cta tta caa tcg tgt tct	528
Ser Asn Ile Ile Asn Asn Thr Asn Asn Ile Leu Leu Gln Ser Cys Ser	
165 170 175	
aat aat att aat aat gat ttg tgt ata aaa tgg tta ata gca ata aga	576
Asn Asn Ile Asn Asn Asp Leu Cys Ile Lys Trp Leu Ile Ala Ile Arg	

180	185	190	
aat agc gga aat cct aca ttt ttt tca tta gca gat aat gtt tta aac			624
Asn Ser Gly Asn Pro Thr Phe Phe Ser Leu Ala Asp Asn Val Leu Asn			
195	200	205	
gca caa aca gat aaa aca aat tta aaa tgt gct ttt tct cct tca tat			672
Ala Gln Thr Asp Lys Thr Asn Leu Lys Cys Ala Phe Ser Pro Ser Tyr			
210	215	220	
att aca gat aca caa aat aga tta aat gtt cca aaa gaa tgt tgg tat			720
Ile Thr Asp Thr Gln Asn Arg Leu Asn Val Pro Lys Glu Cys Trp Tyr			
225	230	235	240
aga gag tgt gct ttt tca cca aat tat cta tta tta act gac aat ata			768
Arg Glu Cys Ala Phe Ser Pro Asn Tyr Leu Leu Leu Thr Asp Asn Ile			
245	250	255	
aca tta aaa aat aat tgt tca ttg tct gaa tgt aat ata aat atc gga			816
Thr Leu Lys Asn Asn Cys Ser Leu Ser Glu Cys Asn Ile Asn Ile Gly			
260	265	270	
aat tta gat ata gta tct gcg tca gaa gta aca ata act tgc aat aat			864
Asn Leu Asp Ile Val Ser Ala Ser Glu Val Thr Ile Thr Cys Asn Asn			
275	280	285	
aat aaa tca aat act gta tca tca aga caa aaa tta gat ata tta ttg			912
Asn Lys Ser Asn Thr Val Ser Ser Arg Gln Lys Leu Asp Ile Leu Leu			
290	295	300	
aga gaa tca gaa gat tat aga ttt ttg tta act aac aac att tta ata			960
Arg Glu Ser Glu Asp Tyr Arg Phe Leu Leu Thr Asn Asn Ile Leu Ile			
305	310	315	320
tta att tta tta ttt ata ttt tta ata ttt tta ata att aga cat aat			1008
Leu Ile Leu Leu Phe Ile Phe Leu Ile Phe Leu Ile Ile Arg His Asn			
325	330	335	
taa			1011

<210> 75

<211> 293

<212> PRT

<213> Artificial Sequence

<220>

<223> HaEPV from Figure 10

<400> 75

Met Ser Phe Asn Pro Ile Ile Tyr Tyr Ile Ser Asp Ile Lys Asn Glu
1 5 10 15

Arg Pro Tyr Lys Lys Asn Thr Lys Pro Tyr Ile Phe Asn Phe Arg Lys
20 25 30

Pro Gly Gln Ile Lys Leu Leu Ile Asn Glu Ile Arg Phe Leu Thr Glu
35 40 45

Asp Val Glu Ile Tyr Lys Asn Tyr Asn Asn Lys Ile Ile Asn Ile Leu
50 55 60

Tyr Ile Gly Ser Gly Lys Gly Tyr His Ile Pro Leu Leu Met Glu Ile
65 70 75 80

Tyr Ser Lys Tyr Asn Ile Ile Trp His Leu Tyr Asp Pro Asn Gly His
85 90 95

Cys Asp Lys Leu Asn Glu Ile Ser Asn Lys Asn Asn Asn Val Asn Ile
100 105 110

Tyr Asn Gln Ile Phe Asp Lys Lys Asp Val Glu Leu Tyr Glu Asp Val
115 120 125

Gln Asn Leu Leu Phe Ile Ser Asp Ile Arg Thr Ile Asp Asp Asp Lys
130 135 140

Ile Glu Pro Asn Thr Lys Asn Leu Ile His Asp Tyr Asp Ile Gln Asn
145 150 155 160

Tyr Val Leu Lys Gln Leu Lys Pro Ile Ala Leu Ile Lys Gln Arg Asp
165 170 175

Pro Phe Pro Asn Asp Trp Asp Glu Ser Tyr Glu Met Tyr Ile Pro Asp
180 185 190

Gly Lys Glu Tyr Val Gln Cys Phe Gln Lys His Asp Ser Ala Glu Tyr
195 200 205

Arg Ile Phe Val Cys Gly Ala Thr Thr Phe Thr Lys Val Asn Leu Asp
210 215 220

Val Leu Lys Thr Arg Asn Ile Asp Lys Lys Leu Ala Trp Tyr Asn Thr

225 230 235 240
 Lys Tyr Arg Phe Asp Asn Phe Asn Asp Tyr Arg Ile Ala Tyr Arg Val
 245 250 255
 Leu Asn Lys Tyr Leu Lys Thr Glu Asn Leu Pro Phe Leu Lys Tyr Thr
 260 265 270
 Asp Ile Asn Lys Asn Asn Ile Lys Ser Val Ile Lys Ser Ile Ser Lys
 275 280 285
 Thr Ile Asn Asp Asn
 290

<210> 76

<211> 295

<212> PRT

<213> Artificial Sequence

<220>

<223> MSV041 from Figure 10

<400> 76

Met Ser Ile Tyr Met Lys Ile Asn Asp Phe Lys Lys Pro Asn Val Leu
 1 5 10 15
 Ile Phe Asp Asn Ile Asn Asn Gln Leu Lys Tyr Lys Pro Asn Asn Val
 20 25 30
 Ser Asn Lys His Pro Gly Gln Leu Lys Leu Leu Met Thr Glu Leu Gln
 35 40 45
 Phe Phe Asn Asn Cys Asn Ile Asp Ala Leu Asn Ser Lys Asp Arg Pro
 50 55 60
 Ile Tyr Val Leu Tyr Ile Gly Ser Gly Arg Gly Tyr His Leu Ile Lys
 65 70 75 80
 Leu Leu Asp Leu Tyr Lys Asp Tyr Asn Ile Lys Trp Tyr Phe Tyr Asp
 85 90 95

Pro Ser Gly His Cys Ile Ser Leu Glu Arg Met Ser Gln Tyr Val Ser
 100 105 110

Ile Asn Asn Asp Tyr Phe Thr Glu Lys Asn Ile Asn Glu Phe Lys Asn
 115 120 125

Lys Lys Pro Leu Leu Phe Ile Ser Asp Ile Arg Ser Thr Asp Gly Ser
 130 135 140

Glu Pro Arg Thr Lys Asn Leu Ile Asp Asp Tyr Lys Ile Gln Asn Asn
 145 150 155 160

Ile Val Leu Asn Leu Arg Pro Leu Tyr Ser Leu Leu Lys Phe Arg Tyr
 165 170 175

Pro Phe Pro Asp Asp Phe Pro Pro Glu Ile Glu Asn Glu Val Tyr Val
 180 185 190

Asp Gly Ile Lys Phe Leu Gln Pro Phe Cys Gly Pro Gln Ser Thr Glu
 195 200 205

Met Arg Ile Phe Val Ser Glu Gln Asn Ile Ile Leu Lys Asn Phe Ser
 210 215 220

Lys Glu Glu Ser Ile Leu Phe Glu Glu Lys Met Tyr Tyr Tyr Asn Lys
 225 230 235 240

Asn Tyr Arg Ile Ile Asn Lys Asn Asp Ile Leu Ile Ala Gly Phe Ile
 245 250 255

Leu Lys Ser Thr Asn Lys Phe Asp Asn Met Lys Tyr Ile Asp Ile Ile
 260 265 270

Lys Ser Leu Glu Asn Ser Ile Asn Asn Gln Ile Arg Glu Asp Ile Ser
 275 280 285

Phe Asn Lys Leu Asp Ile Lys
 290 295

<210> 77

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<223> VVJ3R from Figure 10

<400> 77

Met Asp Val Val Ser Leu Asp Lys Pro Phe Met Tyr Phe Glu Glu Ile
 1 5 10 15

Asp Asn Glu Leu Asp Tyr Glu Pro Glu Ser Ala Asn Glu Val Ala Lys
 20 25 30

Lys Leu Pro Tyr Gln Gly Gln Leu Lys Leu Leu Leu Gly Glu Leu Phe
 35 40 45

Phe Leu Ser Lys Leu Gln Arg His Gly Ile Leu Asp Gly Ala Thr Val
 50 55 60

Val Tyr Ile Gly Ser Ala Pro Gly Thr His Ile Arg Tyr Leu Arg Asp
 65 70 75 80

His Phe Tyr Asn Leu Gly Met Ile Ile Lys Trp Met Leu Ile Asp Gly
 85 90 95

Arg His His Asp Pro Ile Leu Asn Gly Leu Arg Asp Val Thr Leu Val
 100 105 110

Thr Arg Phe Val Asp Glu Glu Tyr Leu Arg Ser Ile Lys Lys Gln Leu
 115 120 125

His Pro Ser Lys Ile Ile Leu Ile Ser Asp Val Arg Ser Lys Arg Gly
 130 135 140

Gly Asn Glu Pro Ser Thr Ala Asp Leu Leu Ser Asn Tyr Ala Leu Gln
 145 150 155 160

Asn Val Met Ile Ser Ile Leu Asn Pro Val Ala Ser Ser Leu Lys Trp
 165 170 175

Arg Cys Pro Phe Pro Asp Gln Trp Ile Lys Asp Phe Tyr Ile Pro His
 180 185 190

Gly Asn Lys Met Leu Gln Pro Phe Ala Pro Ser Tyr Ser Ala Glu Met
 195 200 205

Arg Leu Leu Ser Ile Tyr Thr Gly Glu Asn Met Arg Leu Thr Arg Val
 210 215 220

Thr Lys Ser Asp Val Val Asn Tyr Glu Lys Lys Met Tyr Tyr Leu Asn
 225 230 235 240

Lys Ile Val Arg Asn Lys Val Val Val Asn Phe Asp Tyr Pro Asn Gln
 245 250 255

Glu Tyr Asp Tyr Phe His Met Tyr Phe Met Leu Arg Thr Val Tyr Cys
 260 265 270

Asn Lys Thr Phe Pro Thr Thr Lys Ala Lys Val Leu Phe Leu Gln Gln
 275 280 285

Ser Ile Phe Arg Phe Leu Asn Ile Pro Thr Thr Ser Thr Glu Lys Val
 290 295 300

Ser His Glu Pro Ile Gln Arg Lys Ile Ser Ser Lys Asn Ser Met Ser
 305 310 315 320

Lys Asn Arg Asn Ser Lys Arg Ser Val Arg Gly Asn Lys
 325 330

<210> 78

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus from Figure 10

<400> 78

Pro Asn Tyr Leu Phe Tyr Ile Gly Ser His Leu Ile Trp Asp Ile Asp
 1 5 10 15

Leu Tyr Gln Asn Leu Pro Lys Gly Ser Arg Lys Asn Asn Tyr
 20 25 30

<210> 79

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Insect Cons from Figure 10

<400> 79

Pro Asn Tyr Leu Phe Asn Leu Tyr Ile Gly Ser Tyr His Leu Tyr Ile
 1 5 10 15

Trp Tyr Asp Cys Phe Leu Ile Asp Leu Tyr Gln Asn Leu Pro Leu Lys
 20 25 30

Gly Ser Arg Lys Tyr Asn Asn Asp Ile Leu Asn Tyr Ile Lys
 35 40 45

<210> 80

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> AmEPV Cons from Figure 10

<400> 80

Pro Tyr Tyr Asp Asn Tyr Asp Asn Asn Lys Lys Leu Ile Phe Leu Asn
 1 5 10 15

Asn Asn Ile Leu Tyr Ile Gly Ser Lys Tyr His Leu Tyr Ile Gln Trp

20

25

30

Tyr Asp Cys Asn Ile Phe Asp Leu Ile Asp Asp Asp Asn Leu Tyr Gln
35 40 45

Asn Ile Leu Pro Ser Leu Lys Asn Trp Ser Gly Tyr Ser Arg Ile Lys
50 55 60

Tyr Asn Asn Asp Ile Ile Leu Asn Lys Asn Tyr Asn Ile Lys Lys Ile
65 70 75 80